



**BOBBY JINDAL**  
GOVERNOR

**PEGGY M. HATCH**  
SECRETARY

**State of Louisiana**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**ENVIRONMENTAL SERVICES**

Certified Mail No.

Activity No.: PER20100002  
Agency Interest No. 126578

Mr. David V. Wise  
Plant Manager  
Shintech Louisiana, LL  
PO Box 358  
Addis, LA 70710-0358

RE: Part 70 Operating Permit Minor Modification, Shintech Louisiana LLC – Shintech Plaquemine Plant 2  
Plaquemine, Iberville Parish, Louisiana

Dear Mr. Wise:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 10th of July, 2013, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

Permit No.: 3063-V1

Sincerely,

Cheryl Sonnier Nolan  
Assistant Secretary  
CSN:alr  
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shintech Plaquemine Plant 2  
Agency Interest No.: 126578  
Shintech Louisiana LLC  
Plaquemine, Iberville Parish, Louisiana**

**I. Background**

Shintech Louisiana LLC is currently constructing a PVC production facility named Shintech Plaquemine Plant 2. The Shintech Louisiana LLC – Shintech Plaquemine Plant 2 is currently permitted under Permit No. 3063-V0, issued July 10, 2008.

**II. Origin**

A permit application and Emission Inventory Questionnaire were submitted by Shintech Louisiana LLC on February 15, 2010 requesting a Part 70 operating permit.

**III. Description**

Shintech Plaquemine Plant 2 (SPP-2) is a vertically integrated vinyl chloride monomer (VCM) manufacturing facility that also produces intermediate products, including chlorine (and caustic soda (NaOH) as a byproduct) and ethylene dichloride (EDC). Process units include a chlor-alkali unit (C/A unit) and a VCM unit. The C/A units use brine to produce chlorine ( $\text{Cl}_2$ ) and sodium hydroxide (NaOH) by a membrane-based electrolysis process. The VCM unit produces EDC by reacting ethylene and chlorine in a direct chlorination reactor. The EDC is purified by distillation and sent to cracking furnaces to yield VCM and hydrochloric acid (HCl). The VCM is purified and sent to storage spheres. EDC that was not cracked is sent back to the EDC purification trains. HCl is recovered and used in a second EDC formation process called oxyhydrochlorination. Purified VCM is polymerized to form PVC in SPP-1 or is sent to loading facilities for shipment or transfer.

Shintech proposes the following minor modifications:

- Update the emission factors and engine operating rates for the C/A Emergency Generators (EPN 2C-6), VCM Emergency Generators (EPN 2M-11), Ship Dock Emergency Pump (EPN 2U-5), and Utility Emergency Pump (2U-6)
- Modify the individual engine maximum hourly emissions for the engines included in the C/A Emergency Generators Cap (EPN 2C-6) and VCM Emergency Generators Cap (EPN 2M-11) which include engines 2C-6A through 2C-6B and 2M-11A through 2M-11E, respectively.
- Add two HCl Storage Tanks (EPNs 2ATK-611C and 2ATK-611D) that will vent to the HCl Storage Tank Absorber (EPN 2C-3)
- Modify the operating parameters for the HCl Storage Tank Absorber (EPN 2C-3) to include the two new tanks noted above.

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- Update the component counts for C/A Fugitive Emissions (2C-5) and VCM Fugitive Emissions (2M-8)
- Add a Wastewater Stripper Vent (2MCL-635) as a pre-column for system 2MCL-631 and 2MCL-632. This source is routed to the Gas Thermal Oxidizers.
- List and Update the following insignificant activities:
  - Ammonia Seal Tank (2U-ISA9)
  - Ammonia Seal Tank (2M-ISA10)
  - Sulfuric Acid Tank (2A-ISA4)
  - Sulfuric Acid Tank (2M-ISA5)
- Add regulatory requirements for the 1<sup>st</sup> and 2<sup>nd</sup> Acid Wastewater Stripper Vents (EPNs 2MCL-633 and 2MCL-634) and EDC Purification 2<sup>nd</sup> Hiboil Column Vent that were omitted from the permit.
- Re-designate the following as Group 2 process wastewater streams in accordance with 40 CFR 63.132(c) and 63.132(d) of Subpart G.
  - 2MCL-231
  - 2MCL-232
  - 2MCL-631
  - 2MCL-632
  - 2MCL-633
  - 2MCL-634

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	27.74	27.68	-0.06
SO <sub>2</sub>	2.72	2.78	+0.06
NO <sub>x</sub>	44.15	43.26	-0.89
CO	179.45	179.48	+0.03
VOC *	32.40	33.05	+0.65

\*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Acetaldehyde	0.007	0.007	-
Benzene	0.009	0.009	-
Carbon Tetrachloride	0.30	0.336	+0.036

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**\*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Chloroform	0.20	0.216	+0.016
Chloroprene	0.005	0.005	-
Ethyl Chloride	0.17	0.169	-0.001
Ethylene Dichloride	8.51	7.867	-0.643
Ethyldene Dichloride	0.07	0.073	+0.003
Formaldehyde	0.12	0.12	-
Methanol	0.27	0.27	-
Methyl Chloride	0.005	0.005	-
Toluene	0.004	0.004	-
1,1,2,2-Tetrachloroethane	0.004	0.005	+0.001
1,1,2-Trichloroethane	0.15	0.187	+0.037
Vinyl Chloride	5.34	6.537	+1.197
Vinyldene Chloride	0.02	0.015	-0.005
Total	15.184	15.825	+0.641

**Other VOC (TPY):**

**\*Non-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Ammonia	29.14	29.133	-0.007
Chlorine	11.14	10.772	-0.368
Hydrochloric Acid	8.93	8.707	-0.223
Total	49.21	48.612	-0.598

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

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**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A State Only Public Notice is required under LAC 33:III.5107.D for an increase in emissions of Vinyl Chloride above the Minimum Emission Rate (MER) of 240.0 lbs/year.

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS.

Dispersion Model(s) Used: AERMOD (Criteria Pollutants) and ISC3 (TAPs)

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Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard (NAAQS))
PM <sub>10</sub>	24-Hour	3.72	150
PM <sub>10</sub>	Annual	0.63	50
NO <sub>x</sub>	Annual	0.75	100
CO	1-hour	226.95	40,000
CO	8-hour	105.01	10,000
Ethylene dichloride	Annual	1.31	3.85
Vinyl chloride	Annual	1.56	1.19
Chlorine	8-hour	19.05	35.7

The toxics air quality dispersion modeling analysis was conducted in accordance with the approved air quality dispersion modeling protocol. For all TAPs other than vinyl chloride, the modeling results show that there were no ambient air impacts greater than ambient air standard (AAS), demonstrating compliance with LAC 33:III.5109.B. Vinyl chloride modeling results show that there were nine receptors with ambient air impacts greater than the AAS. The receptors are located along Evergreen Road and at a restricted public access cemetery located off Evergreen Road entirely within the boundaries of the Georgia Gulf Facility.

The vinyl chloride AAS is based on an annual average. Since the receptor locations are in areas that are uninhabited and restricted access, long-term exposure to vinyl chloride is not expected. Additionally, modeling results show that the Shintech facility's contributions to the vinyl chloride impacts are relatively minor.

#### **VIII. General Condition XVII Activities**

Work Activity	Schedule	Emission Rates - tons				
		PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC
Equipment Opening at Turnaround	1/Year					<0.001
Equipment Opening at routine operations	4/Year	0.07				0.006
Sampling	4/Day				0.005	0.001
Instrument Maintenance	2/Year				<0.001	0.002
Inert Gas purging for plant start up	6/Year				0.095	0.004
Cracking furnace decoking	2/Year	0.22		0.05	0.83	
Loading/Unloading Operations	5-18/day					0.023

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**IX. Insignificant Activities**

ID No.:	Description	Citation
2U-ISA1	Fuel oil tank for EMG river water pump	Insignificant Activity per LAC 33:III.501.B.5.A.3.
2U-ISA2	Fuel oil tank for firefighting water pump - A	LAC 33:III.501.B.5.A.3
2U-ISA3	Fuel oil tank for firefighting water pump - B	LAC 33:III.501.B.5.A.3
2U-ISA4	Fuel oil tank for firefighting water pump - C	LAC 33:III.501.B.5.A.3
2U-ISA5	Fuel oil tank for firefighting water pump - D	LAC 33:III.501.B.5.A.3
2U-ISA6	Fuel oil tank for firefighting water pump - E	LAC 33:III.501.B.5.A.3
2U-ISA7	Fuel oil tank for firefighting water pump - F	LAC 33:III.501.B.5.A.3
2U-ISA8	Fuel oil tank of Emergency generator	LAC 33:III.501.B.5.A.3
2U-ISA9	Ammonia Seal Tank	LAC 33:III.501.B.5.D
2A-ISA3	Fuel oil tank of Emergency generator	LAC 33:III.501.B.5.A.3
2A-ISA4	Sulfuric Acid Tank	LAC 33:III.501.B.5.D
2A-ISA6	Laboratory Vent	LAC 33:III.501.B.5.A.6
2M-ISA1	Fuel oil tank for EMG neutralizer CW pump -A	LAC 33:III.501.B.5.A.3
2M-ISA2	Fuel oil tank for EMG neutralizer CW pump -B	LAC 33:III.501.B.5.A.3
2M-ISA3	Fuel oil tank for EMG neutralizer CW pump -C	LAC 33:III.501.B.5.A.3
2M-ISA4	Fuel oil tank for EMG generator	LAC 33:III.501.B.5.A.3
2M-ISA5	Sulfuric Acid Tank	LAC 33:III.501.B.5.D
2M-ISA6	Hydrochloric Acid Tank	LAC 33:III.501.B.5.D
2M-ISA7	Laboratory Vent	LAC 33:III.501.B.5.A.6
2M-ISA8	Process Stream Analyzers - 1	LAC 33:III.501.B.5.A.6
2M-ISA9	Process Stream Analyzers - 2	LAC 33:III.501.B.5.A.6
2M-ISA10	Ammonia Seal Tank	LAC 33:III.501.B.5.D

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**Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III, Chapter																		
		5▲	9	11	13	15	2103	2107	2108	2113	2115	2121	2122	2147	2153	22	29*	51*	56	59*
UNF0001	Entire Facility		1	1	1	2				1							1	1	1	1
EQT0112	2U-1 - Boiler A			1	1	2											2			
EQT0113	2U-2 - Boiler B			1	1	2											2			
EQT0114	2U-3 - 35% HCl Tank Absorber																1			
FUG0006	2U-4 - Fugitive Emission (Bio)																3	1		
EQT0115	2U-5 - Ship Dock Emergency Pump						1	1	2								2			
EQT0116	2U-6 - Utility Emergency Generator (Bio)						1	1	2								2			
EQT0117	2C-1 - No.2 Chlorine Scrubber																3	1		
EQT0118	2C-2 - HCl Scrubber																3	1		
EQT0119	2C-3 - HCl Storage Tank Absorber																1			
EQT0120	2C-4 - C/A Cooling Tower									1								1		
FUG0007	2C-5 - C/A Fugitive Emissions																3		1	
GRP0011	2C-6 - C/A Emergency Generators																	2		
EQT0122	2M-1 - Cracking Furnace A									1	1	2						2		
EQT0123	2M-2 - Cracking Furnace B									1	1	2						2		
EQT0124	2M-3 - Cracking Furnace C									1	1	2						2		
EQT0125	2M-4 - Cracking Furnace D									1	1	2						2		

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**X.** **Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III Chapter																			
		5	▲	9	11	13	15	2103	2107	2108	2113	2115	2121	2122	2147	2153	22	29*	51*	56	59*
EQT0126	2M-5 - Gas Thermal Oxidizer A			1	1	2	1				1								2	1	
EQT0127	2M-6 - Gas Thermal Oxidizer B			1	1	2	1				1							2	1		
EQT0128	2M-7 - VCM Cooling Tower					1													1		
FUG0008	2M-8 - VCM Unit Fugitive Emissions								1										2		
FUG0009	2M-9 - VCM Unit Fugitives Emissions 2																		1		
FUG0010	2M-10 - VCM Unit Fugitives Emissions 3																		1		
GRP0012	2M-11 - VCM Emergency Generators					1	1												2		
RLP0010	2MCL-301 - Cracking Furnace Initial Quench Process Vents																	1			
RLP0011	2MCL-302 - Cracking Furnace Initial Quench Process Vents																	1			
RLP0012	2MCL-303 - Cracking Furnace Initial Quench Process Vents																	1			
RLP0013	2MCL-304 - Cracking Furnace Initial Quench Process Vents																	1			
RLP0014	2MRE-203 - OHC Reactor Initial Quench Process Vents																	1			
RLP0015	2MRE-204 - OHC Reactor Initial Quench Process Vents																	1		3	

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		5▲	9	11	13	15	2103	2107	2108	2113	2115	2121	2122	2147	2153	22	29*	51*	56	59*
RLP0016	2MRE-205 - OHC Reactor Initial Quench Process Vents									1						3			1	
RLP0036	2MCL-204 - OHC Train CO2 Stripper Process Vents									1						3			1	
RLP0037	2MCL-205 - OHC Train CO2 Stripper Process Vents									1						3			1	
RLP0017	2MRE-101 DC Reactor Process Vents									1						3			1	
RLP0018	2MRE-102 DC Reactor Process Vents									1						3			1	
RLP0038	2MRE-103 DC Reactor Process Vents									1						3			1	
RLP0019	2MTK-105 DC Product Separator Vent									1						3			1	
RLP0024	2MCL-231 – 1st Wastewater Stripper Vents									1						3			1	
RLP0025	2MCL-232 – 2nd Wastewater Stripper Vents									1						3			1	
RLP0032	2MCL-631 - Process Area Storm Water Stripper Vents									1						1			1	
RLP0033	2MCL-632 - Process Area Storm Water Stripper Vents									1						1			1	
RLP0034	2MCL-633 - 1st Acid Wastewater Stripper Vent									1						1			1	
RLP0035	2MCL-634 - 2nd Acid Wastewater Stripper Vent									1						1			1	

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		5▲	9	11	13	15	2103	2107	2108	2113	2115	2121	2122	2147	2153	22	29*	51*	56
RLP0026	2MCL-401 - EDC Purification Process Vents									1				3			1		
RLP0027	2MCL-402 - EDC Purification Process Vents									1				3			1		
RLP0028	2MCL-403 - EDC Purification Process Vents									1				3			1		
RLP0029	2MCL-404 - EDC Purification Process Vents									1				3			1		
RLP0030	2MCL-405 - EDC Purification Process Vents									1				3			1		
	2MCL-406 - EDC Purification 2nd Hiboil Column Vent									1							1		
EQT0162	2VCLD-RC - VCM Railcar Loading Racks							1									1		
EQT0163	2VCLD-SD - VCM Marine Loading Racks								1								1		
EQT0164	2EDLD-SD - EDC Marine Loading Racks									1							1		
EQT0134	2MTK-491 - EDC Intermediate Storage Tanks									1				3			1		
EQT0135	2MTK-492 - EDC Intermediate Storage Tanks									1							1		
EQT0136	2MTK-493 - EDC Intermediate Storage Tanks									1				3			1		
EQT0137	2MTK-494 - EDC Intermediate Storage Tanks									1				3			1		
EQT0138	2MTK-495 - EDC Intermediate Storage Tanks									1				3			1		
EQT0139	2MTK-496 - By Product Storage									1				3			1		
EQT0140	2MTK-499A - No.1 By-Product Tank									1				3			1		
EQT0141	2MTK-499B - No.2 By-Product Tank									1				3			1		

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ID No.:	Description	LAC 33:III. Chapter																							
		5	▲	9	11	13	15	21	03	21	08	21	13	21	15	21	22	21	47	21	53	22	29*	51	56
EQT0166	2MTK-501 - Feed Tank								1																
EQT0142	2MTK-719A - No. 1 Wastewater Tank									3															
EQT0143	2MTK-719B - No. 2 Wastewater Tank									3															
EQT0146	2MDCW-1 - DC Wastewater Streams																								
EQT0147	2MDCW-2 - DC Wastewater Streams																								
EQT0148	2MOHCW-1 - OHC Wastewater Streams																								
EQT0149	2MOHCW-2 - OHC Wastewater Streams																								
EQT0150	2MOHCW-3 - OHC Wastewater Streams																								
EQT0151	2MOHCW-4 - OHC Wastewater Streams																								
EQT0152	2MEP-1 - EDC Purification Wastewater Stream																								
EQT0157	2MGTO-1 Gas Thermal Oxidizer A and Scrubber Bottoms Wastewater Stream																								
EQT0158	2MGTO-2 Gas Thermal Oxidizer B and Scrubber Bottoms Wastewater Stream																								
GRP0001	2M-CAP Gas Thermal Oxidizer Cap																								
EQT0207	2ATK-611C - Hydrochloric Acid Storage Tank																								
EQT0208	2ATK-611D - Hydrochloric Acid Storage Tank																								
RLP0044	2MCL-635 - Wastewater Stripper Vent																								
EQT0200	2C-6A - C/A Emergency Generator A																								

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		5	▲	9	11	13	15	2103	2107	2108	2113	2115	2121	2122	2147	2153	22	29*	51*	56	59*
EQT0201	2C-6B - C/A Emergency Generator B																				
EQT0202	2M-11A - VCM Emergency Generator A																				
EQT0203	2M-11B - VCM Emergency Generator B																				
EQT0204	2M-11C - VCM Emergency Generator C																				
EQT0205	2M-11D - VCM Emergency Generator D																				
EQT0206	2M-11E - VCM Emergency Generator E																				

\* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.  
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.  
 Blank – The regulations clearly do not apply to this type of emission source.

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR 63 NESHAP												40 CFR											
		A	D	b	D	c	K	b	V	V	NNN	RRR	III	A	F	V	FF	A	F	G	H	Q	EEEE	52	64	68																							
UNF0001	Entire Facility	1												1	1	1	1						3	1	3	1																							
EQT0112	2U-1 - Boiler A		1																																														
EQT0113	2U-2 - Boiler B			1																																													
EQT0114	2U-3 - 35% HCl Tank Absorber																																																
FUG0006	2U-4 - Fugitive Emission (Bio)																																																
EQT0115	2U-5 - Ship Dock Emergency Pump																																																
EQT0116	2U-6 - Utility Emergency Generator (Bio)																																																
EQT0117	2C-1 - No.2 Chlorine Scrubber																																																
EQT0118	2C-2 - HCl Scrubber																																																
EQT0119	2C-3 - HCl Storage Tank Absorber																																																
EQT0120	2C-4 - C/A Cooling Tower																																																
FUG0007	2C-5 - C/A Fugitive Emissions																																																
GRP0011	2C-6 - C/A Emergency Generators																																																
EQT0122	2M-1 - Cracking Furnace A																																																
EQT0123	2M-2 - Cracking Furnace B																																																
EQT0124	2M-3 - Cracking Furnace C																																																
EQT0125	2M-4 - Cracking Furnace D																																																
EQT0126	2M-5 - Gas Thermal Oxidizer A																																																
EQT0127	2M-6 - Gas Thermal Oxidizer B																																																

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shintech Plaquemine Plant 2**  
**Agency Interest No.: 126578**  
**Shintech Louisiana LLC**  
**Plaquemine, Iberville Parish, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR										
		A	D	b	Dc	K	b	V	V	NNN	RRR	III	A	F	V	FF	A	F	G	H	Q	EEEE	A	F	G	H	Q	52	64	68
EQT0128	2M-7 - VCM Cooling Tower																	1	3									1		
FUG0008	2M-8 - VCM Unit Fugitive Emissions					3												1	3									1		
FUG0009	2M-9 - VCM Unit Fugitives Emissions 2					3												1	3									1		
FUG0010	2M-10 - VCM Unit Fugitives Emissions 3					3												1	3									1		
GRP0012	2M-11 - VCM Emergency Generators																	1												
2MCL-301	- Cracking Furnace Initial Quench																													
RLP0010	Process Vents																	2	1	1	1	1								
2MCL-302	- Cracking Furnace Initial Quench																		2	1	1	1	1							
RLP0011	Process Vents																													
2MCL-303	- Cracking Furnace Initial Quench																		2	1	1	1	1							
RLP0012	Process Vents																													
2MCL-304	- Cracking Furnace Initial Quench																		2	1	1	1	1							
RLP0013	Process Vents																													
2MRE-203	- OHC Reactor Initial Quench																		2	1	1	1	1							
RLP0014	Process Vents																		1	1	1	1	1							
2MRE-204	- OHC Reactor Initial Quench																		1	1	1	1	1							
RLP0015	Process Vents																													
2MRE-205	- OHC Reactor Initial Quench																		1	1	1	1	1							
RLP0016	Process Vents																													
2MCL-204	- OHC Train CO2 Stripper Process																		1	1	1	1	1							
RLP0036	Vents																													

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**Shintech Plaquemine Plant 2**  
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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR								
		A	D	b	Dc	V	V	NNN	RRR	III	A	F	V	FF	A	F	G	H	Q	EEEE	52	64	68					
RLP0037	2MCL-205 - OHC Train CO2 Stripper Process Vents							1			1				1		1											
RLP0017	2MRE-101 DC Reactor Process Vents								1			1				1	3											
RLP0018	2MRE-102 DC Reactor Process Vents								1			1				1	3											
RLP0038	2MRE-103 DC Reactor Process Vents								1			1				1	3											
RLP0019	2MTK-105 DC Product Separator Vent									1						1	3											
RLP0024	2MCL-231 - 1st Wastewater Stripper Vents										1				1	1	1											
RLP0025	2MCL-232 - 2nd Wastewater Stripper Vents										1				1	1	1											
RLP0032	2MCL-631 - Process Area StormWater Stripper Vents										1				1	1	1											
RLP0033	2MCL-632 - Process Area StormWater Stripper Vents										1																	
RLP0034	2MCL-633 - 1st Acid Wastewater stripper Vent											1				1	1	1										
RLP0035	2MCL-634 - 2nd Acid Wastewater stripper Vent											1				1	1	1										
RLP0026	2MCL-401 - EDC Purification Process Vents											1				1	1	1										
RLP0027	2MCL-402 - EDC Purification Process Vents											1				1	1	1										
RLP0028	2MCL-403 - EDC Purification Process Vents											1				1	1	1										
RLP0029	2MCL-404 - EDC Purification Process Vents											1				1	1	1										
RLP0030	2MCL-405 - EDC Purification Process Vents											1				1	1	1										

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**Shintech Plaquemine Plant 2**  
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**Plaquemine, Iberville Parish, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR															
		A	D	b	Dc	Kb	V	NNN	RRR	J	I	A	F	V	FF	A	F	G	H	Q	EEEE	A	F	G	H	Q	52	64	68
RLP0031	2MCL-406 - EDC Purification 2nd Hiboil Column Vent																												
EQT0162	2VCLD-RC - VCM Railcar Loading Racks											1										3							
EQT0163	2VCLD-SD - VCM Marine Loading Racks											1										3							
EQT0164	2EDLD-SD - EDC Marine Loading Racks											3										3							
EQT0134	2MTK-491 - EDC Intermediate Storage Tanks											1										1							
EQT0135	2MTK-492 - EDC Intermediate Storage Tanks											1										1							
EQT0136	2MTK-493 - EDC Intermediate Storage Tanks											1										1							
EQT0137	2MTK-494 - EDC Intermediate Storage Tanks											1										1							
EQT0138	2MTK-495 - EDC Intermediate Storage Tanks											1										1							
EQT0139	2MTK-496 - By Product Storage											1										1							
EQT0140	2MTK-499A - No. 1 By-Product Tank											1										1							
EQT0141	2MTK-499B - No. 2 By-Product Tank											1										1							
EQT0166	2MTK-501 - Feed Tank											1										1							
EQT0142	2MTK-719A - No. 1 Wastewater Tank											2										1							
EQT0143	2MTK-719B - No. 2 Wastewater Tank											2										1							
EQT0146	2MDCW-1 - DC Wastewater Streams																					3							
EQT0147	2MDCW-2 - DC Wastewater Streams																					3							
EQT0148	2MOHCW-1 - OHC Wastewater Streams																					1							
EQT0149	2MOHCW-2 - OHC Wastewater Streams																					1							

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR							
		A	D <sub>b</sub>	Dc	K <sub>b</sub>	V <sub>v</sub>	NNN	RRR	III	A	F	V	FF	A	F	G	H	Q	EEEE	52	64	68					
EQT0150	2MOHCW-3 - OHC Wastewater Streams									1				1		1	1										
EQT0151	2MOHCW-4 - OHC Wastewater Streams									1				1		1	1										
EQT0152	2MEP-1 - EDC Purification Wastewater Stream									1				1		1	1										
EQT0157	2MGT0-1 Gas Thermal Oxidizer A and Scrubber Bottoms Wastewater Stream									3				3		3	3										
EQT0158	2MGT0-2 Gas Thermal Oxidizer B and Scrubber Bottoms Wastewater Stream									3				3		3	3										
GRP0001	2M-CAP Gas Thermal Oxidizer Cap																										1
EQT0207	2ATK-611C - Hydrochloric Acid Storage Tank																										
EQT0208	2ATK-611D - Hydrochloric Acid Storage Tank																										
RLP0044	2MCL-635 - Wastewater Stripper Vent																			1	1	1					
EQT0200	2C-6A - C/A Emergency Generator A																										
EQT0201	2C-6B - C/A Emergency Generator B																										
EQT0202	2M-11A - VCM Emergency Generator A																										
EQT0203	2M-11B - VCM Emergency Generator B																										
EQT0204	2M-11C - VCM Emergency Generator C																										
EQT0205	2M-11D - VCM Emergency Generator D																										
EQT0206	2M-11E - VCM Emergency Generator E																										

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shintech Plaquemine Plant 2**  
**Agency Interest No.: 126578**  
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**Plaquemine, Iberville Parish, Louisiana**

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.
    - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
  - 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
  - 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank – The regulations clearly do not apply to this type of emission source.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
UNF001 – Entire Facility	Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C)	EXEMPT – Sulfur Dioxide emissions less than 250 tons per year.
	40 CFR 63 Subpart IIII – National Emission Standards for Hazardous Air Pollutants: Mercury Cell Chlor-Alkali Plants (40CFR 63.8182(a))	DOES NOT APPLY – Facility is not a mercury cell chlor-alkali plant
	40 CFR 63 Subpart EEEE - National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (non-gasoline) (40 CFR 63.2334)	DOES NOT APPLY – Compliance with HON requirements supersedes NESHPAP Subpart EEEE
	Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C)	EXEMPT – Sulfur Dioxide emissions less than 250 tons per year.
EQT0112 & EQT0113 – 2U-1,2: Boilers A & B	Control of Nitrogen Oxides (LAC 33:III.2201.C.15)	EXEMPT – Proposed State-Only limit is more stringent than the NOx emission limit for industrial boilers
FUG0006 – 2U-4: Fugitive Emissions (Bio)	Limiting VOC Emissions from Industrial Wastewater (LAC 33:III.2153)	DOES NOT APPLY – Biological treatment system does not receive any wastewaters meeting the definition of Affected VOC Wastewater Stream as defined in LAC 33:III.2153.A.
	NESHAP Subpart F – National Emission Standard for Vinyl Chloride (40 CFR 61.65(b)(9))	DOES NOT APPLY – Biological wastewater treatment system does not receive any untreated in process wastewater from a unit subject to the Vinyl NESHAP.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No.	Requirement	Notes
FUG0006 – 2U-4: Fugitive Emissions (Bio) (Continued)	NESHAP Subpart FF – National Emission Standard for Benzene Waste operations (40 CFR 61.340))	DOES NOT APPLY – Compliance with SOCM1 HON Group 1 and Group 2 wastewater requirements supersedes NESHAP Subpart FF requirements.
	40 CFR 63 Subpart F – National Emission Standards for Hazardous Air Pollutants from the SOCM1 (HON) (40 CFR 63.100)	DOES NOT APPLY – Biological treatment system does not receive any Group 1 and/or Group 2 wastewater streams from a HON regulated unit.
	40 CFR 63 Subpart G – National Emission Standards for Hazardous Air Pollutants from the SOCM1 for Process Vents, Storage Vessels, Transfer Operations and Wastewater (HON) (40 CFR 63.110)	DOES NOT APPLY – Biological treatment system does not receive and Group 1 and/or Group 2 wastewater streams from a HON regulated unit.
EQT0115 & EQT0116 – 2U-5 & 2U-6: Ship Dock Emergency, Utility Emergency Generator (Bio)	Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C)	EXEMPT – Sulfur Dioxide emissions less than 250 tons per year.
EQT0117 - 2C-1: No.2 Chlorine Scrubber	Continuous Emission Monitoring (Emissions Standards for Sulfur Dioxide) (LAC 33:III.1511)	DOES NOT APPLY – Continuous monitoring is not required for sources emitting <100 TPY of SO2
	Control of Nitrogen Oxides (LAC 33:III.2201.C)	EXEMPT – Emergency stationary internal combustion engines
	Waste Gas Disposal (LAC 33:III.2115)	DOES NOT APPLY – Vent Stream is not in VOC service.

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**Plaquemine, Iberville Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT0117 - 2C-1: No 2 Chlorine Scrubber (Continued)	NSPS Subpart NNN – SOCMI Distillation Operations (40 CFR 60.660)  NSPS Subpart RRR – SOCMI Reactor Operations (40 CFR 60.700)	DOES NOT APPLY – Chlorine Scrubber is located in Chlor-Alkali Plant which is not a SOCMI facility.
	Waste Gas Disposal (LAC 33:III.2115)	DOES NOT APPLY – Vent Stream is not in VOC service.
EQT0118 - 2C-2: HCl Scrubber	NSPS Subpart NNN – SOCMI Distillation Operations (40 CFR 60.660)  NSPS Subpart RRR – SOCMI Reactor Operations (40 CFR 60.700)	DOES NOT APPLY – Chlorine Scrubber is located in Chlor-Alkali Plant which is not a SOCMI facility.
EQT0120 - 2C-4: C/A Cooling Tower	40 CFR 63 Subpart Q – National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers (40 CFR 63.400)	DOES NOT APPLY – The facility does not use chromium based water treatment chemicals in its cooling waters.
FUG0007 - 2C-5: C/A Fugitive Emissions	Fugitive Emission Control (LAC 33:III.2121)	DOES NOT APPLY – The C/A Unit is not a SOCMI facility or any other listed facility per LAC 33:III.2121.A
EQT0121 - 2C-6 C/A Emergency Generators	Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C)	EXEMPT – Sulfur Dioxide emissions less than 250 tons per year.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No.	Requirement	Notes
EQT0121 - 2C-6 C/A Emergency Generators (continued)	Continuous Emission Monitoring (Emissions Standards for Sulfur Dioxide) (LAC 33:III.1511)  Control of Nitrogen Oxides (LAC 33:III.2201.C)	DOES NOT APPLY – Continuous monitoring is not required for sources emitting <100 TPY of SO <sub>2</sub>  EXEMPT – Emergency stationary internal combustion engines
EQT0122, EQT0123, EQT0124, & EQT0125 – 2M. 1.2.3.4: Cracking Furnaces A, B, C, and D (Combustion only)	Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C)  Continuous Emission Monitoring (Emissions Standards for Sulfur Dioxide) (LAC 33:III.1511)  Control of Nitrogen Oxides (LAC 33:III.2201.C.15)	EXEMPT – Sulfur Dioxide emissions less than 250 tons per year.  DOES NOT APPLY – Continuous monitoring is not required for sources emitting <100 TPY of SO <sub>2</sub>  EXEMPT – Proposed State-Only limit is more stringent than the NO <sub>x</sub> emission limit for industrial boilers
EQT0126 & EQT0127 – 2M. 5.6: Thermal Oxidizer A & B	NSPS Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60.40c)  Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C)  Control of Nitrogen Oxides (LAC 33:III.2201.C.15)	DOES NOT APPLY – Units do not meet the definition of a “Steam Generating Unit” as defined in Subpart Dc.  EXEMPT – Sulfur Dioxide emissions less than 250 tons per year.  EXEMPT – Thermal Oxidizers are exempt per LAC 33:III.2201.C.7

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT0128 - 2M-7: VCM Cooling Tower	40 CFR 63 Subpart Q – National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers (40 CFR 63.400)	DOES NOT APPLY – The facility does not use chromium based water treatment chemicals in its cooling waters.
FUG0008 - 2M-8: VCM Unit Fugitive Emissions	Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes (LAC 33:2122)	EXEMPT – Any facility which has in place a fugitive emissions monitoring program which controls to a higher degree than required by this regulation upon submittal of a description of the program to the administrative authority per LAC 33:III.2122.D.5
NSPS Subpart VV – Equipment Leaks of VOC in the SOCMI Industry (40 CFR 60.480)	NESHAP Subpart V – National Emission Standard for Equipment Leaks (40 CFR 61.240)	DOES NOT APPLY – Compliance with this Subpart is achieved by complying with 40 CFR 63, Subpart H per 40 CFR 63.160(b)(1)
Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C)	Continuous Emission Monitoring (Emissions Standards for Sulfur Dioxide) (LAC 33:III.1511)	DOES NOT APPLY – Continuous monitoring is not required for sources emitting <100 TPY of SO2
EQT0129 - 2M-11: VCM Emergency Generators	Control of Nitrogen Oxides (LAC 33:III.2201.C)	EXEMPT – Emergency stationary internal combustion engines

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
RLP0010, 11. 12. & 13 – 2MCL-301, 302.	Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations (LAC 33:III.2147.A.2.g)	DOES NOT APPLY – Any reactor process or distillation operation subject to the HON is not subject to this subchapter.
303. & 304: Cracking Furnace Initial Quench Process Vents	NSPS Subpart RRR – SOCMI Reactor Operations (40 CFR 60.700)	EXEMPT – Facility meets the requirements specified in 60.700(c)(5) and 60.705(r).
RLP0014, 15. & 16 – 2MRE- 203.204&205: OHIC Reactor Initial Quench Process vents: RLP0036 & 37 – 2MCL. 204.205: OCH Train CO2 Stripper Process Vents	Limiting VOC Emissions from SOCMI reactor Processes and Distillation Operations (LAC 33.III.2147.A.2.g)  NSPS Subpart RRR – SOCMI Reactor Operations (40 CFR 60.700)	DOES NOT APPLY – Any reactor process or distillation operation subject to the HON is not subject to this subchapter.  EXEMPT – Facility meets the requirements specified in 60.700(c)(5) and 60.705(r).

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
RLP0017,18,38 -2MRE-101, 102, 103: DC Reactor Process Vents	Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations (LAC 33:III.2147.A.2.g)	DOES NOT APPLY – Any reactor process or distillation operation subject to the HON is not subject to this subchapter.
	NESHAP Subpart F – National Emission Standard for Vinyl Chloride (40 CFR 61)	EXEMPT – NESHAP Subpart F does not apply to direct chlorination (DC) reactor processes
	NSPS Subpart RRR – SOCMI Reactor Operations (40 CFR 60.700)	EXEMPT – Facility meets the requirements specified in 60.700(c)(5) and 60.705(r).
RLP0019 – 2MTK-105: DC Product Separator Vent	Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations (LAC 33:III.2147.A.2.g)	DOES NOT APPLY – Any reactor process or distillation operation subject to the HON is not subject to this subchapter.
	NESHAP Subpart F – National Emission Standard for Vinyl Chloride (40 CFR 61)	EXEMPT – NESHAP Subpart F does not apply to direct chlorination (DC) reactor processes
RLP0039, 40- 2MCL-221,222: Process Wastewater Stripper vents	Limiting VOC Emissions from Industrial Wastewater (LAC 33:III.2153.G.6)	DOES NOT APPLY – Any component of a wastewater storage component, handling transfer, or treatment facility subject to the HON is exempt from the provisions of this section

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
RLP0026, 27, 28, 29, 30, & 31 – 2MCL-401, 402, 403, 404, 405, & 406: EDC Purification Columns vents	Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations (LAC 33:III.2147.A.2.g)	DOES NOT APPLY – Any reactor process or distillation operation subject to the HON is not subject to this subchapter.
EQT0162 – 2VCLD-RC: VCM Railcar Loading Racks	NSPS Subpart NNN – SOCMI Distillation Operations (40 CFR 61.62(a))	Exemption applies for NSPS testing, monitoring, recordkeeping, and reporting under HON overlap provisions at 60.110(d)(6)
EQT0162 – 2VCLD-SD: VCM Marine Loading Racks	40 CFR 63 Subpart F – National Emission Standard for Organic Hazardous Air Pollutants from the SOCMI (40 CFR 63.100(f))	DOES NOT APPLY – Loading racks, loading arms, or loading losses that vapor balance during all loading operations are not subject to the requirements of Subparts A, F, G, and H
	40 CFR 63 Subpart F – National Emission Standard for Organic Hazardous Air Pollutants from the SOCMI (40 CFR 63.100(f))	DOES NOT APPLY – 40 CFR 63 Subparts F and G do not apply to marine loading operations.
	40 CFR 63 Subpart Y – National Emission Standard for Marine Tank Vessel Loading Operations (40 CFR 63.560)	EXEMPT – The provisions pertaining to the MACT standards in 63.562(b) do not apply to marine tank vessel loading operations where emissions are reduced by using vapor balancing systems.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT0164 – 2EDLD-SD: EDC Marine Loading Racks	NESHAP Subpart F – National Emission Standard for Vinyl Chloride (40 CFR 61.65(b)(1) and (b)(2))	DOES NOT APPLY – Requirement is to reduce the quantity of the VCM in all parts of each loading line that are to opened to atmosphere to $\leq 0.13$ scf. VCM removed from loading lines is to be controlled to $\leq 10$ ppmv (3-hr average)
	40 CFR 63 Subpart F – National Emission Standard for Organic Hazardous Air Pollutants from the SOCM (40 CFR 63.100(f))	DOES NOT APPLY – 40 CFR 63 Subparts F and G do not apply to marine loading operations.
	40 CFR 63 Subpart Y – National Emission Standard for Marine Tank Vessel Loading Operations (40 CFR 63.560)	EXEMPT – The provisions pertaining to the MACT standards in 63.562(b) do not apply to marine tank vessel loading operations where emissions are reduced by using vapor balancing systems.
EQT0134, 135, 136, 137, 138 – 2MTK-491, 492, 493, 494, 495: EDC Intermediate Storage tanks	Waste Gas Disposal (LAC 33:III.2115)	DOES NOT APPLY – Storage Tank vents are not subject to LAC 33:III.2115.
EQT0139 – 2MTK-496: By-Product Storage Tank	Waste Gas Disposal (LAC 33:III.2115)	DOES NOT APPLY – Storage Tank vents are not subject to LAC 33:III.2115.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shintech Plaquemine Plant 2**  
**Agency Interest No.: 126578**  
**Shintech Louisiana LLC**  
**Plaquemine, Iberville Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT0140, 141 – 2MTK-499 A & B: By-Product Tanks 1 & 2	Waste Gas Disposal (LAC 33:III.2115)	DOES NOT APPLY – Storage Tank vents are not subject to LAC 33:III.2115.
EQT0166 – 2MTK-501: Feed Tank	Waste Gas Disposal (LAC 33:III.2115)	DOES NOT APPLY – Storage Tank vents are not subject to LAC 33:III.2115.
EQT0142, 143 – 2MTK-719 A & B: Wastewater Tanks 1 & 2	Storage of VOC Compounds (LAC 33:III.2103) Waste Gas Disposal (LAC 33:III.2115)	DOES NOT APPLY – Tanks store material having a maximum true vapor pressure < 1.5 psia DOES NOT APPLY – Storage Tank vents are not subject to LAC 33:III.2115.
EQT0146, 147 – 2MDCW-1, 2: DC Wastewater Streams	Limiting VOC Emissions from Industrial Wastewater (LAC 33:III.2153.G.6) NESHAP Subpart F – National Emission Standard for Vinyl Chloride (40 CFR 61.65(b)(9)(i) & (ii))	DOES NOT APPLY – Any component of a wastewater storage, handling, transfer, or treatment facility subject to the HON is exempt from the provisions of this section. EXEMPT – NESHAP Subpart F does not apply to direct chlorination (DC) reactor processes
EQT0148, 149, 150, & 151 – 2MOHCW-1,2,3,4: OHC Wastewater Streams	Limiting VOC Emissions from Industrial Wastewater (LAC 33:III.2153.G.6)	DOES NOT APPLY – Any component of a wastewater storage, handling, transfer, or treatment facility subject to the HON is exempt from the provisions of this section.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shintech Plaquemine Plant 2**  
**Agency Interest No.: 126578**  
**Shintech Louisiana LLC**  
**Plaquemine, Iberville Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT0152 – 2MEP-1; EDC Purification Wastewater Stream	Limiting VOC Emissions from Industrial Wastewater (LAC 33:III.2153.G.6)	DOES NOT APPLY – Any component of a wastewater storage, handling, transfer, or treatment facility subject to the HON is exempt from the provisions of this section.
EQT0157, 158 – 2MGT0-1,2; Gas Thermal Oxidizer A & B and Scrubber Bottoms Waste water streams	Limiting VOC Emissions from Industrial Wastewater (LAC 33:III.2153.A)	DOES NOT APPLY – Wastewater does not meet the definition of Affected VOC Wastewater.
	NESHAP Subpart F – National Emission Standard for Vinyl Chloride (40CFR 61.65(b)(9)(i) & (ii))	Does Not Apply – Wastewater streams are < 5 ppmw VOHAP.
	40 CFR 63 Subpart F – National Emission Standard for Organic Hazardous Air Pollutants from the SOCM1 (40 CFR 63. 101)	DOES NOT APPLY – Wastewater stream does not meet the definition of Wastewater in Subpart F
	40 CFR 63 Subpart G – National Emission Standard for Organic Hazardous Air Pollutants from the SOCM1 for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (40 CFR 63.138(b)(2), 63.139(c)(2), 63.138(d), 63.139(c))	DOES NOT APPLY - Wastewater stream does not meet the definition of Wastewater in Subpart F

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
<b>Entire Facility</b>															
EQT 0112 2U-1	9.05	10.86	39.64	2.54	3.05	11.13	1.25	1.25	5.48	0.16	0.19	0.68	0.65	0.78	2.85
EQT 0113 2U-2	9.05	10.86	39.64	2.54	3.05	11.13	1.25	1.25	5.48	0.16	0.19	0.68	0.65	0.78	2.85
EQT 0115 2U-5	1.27	2.15	0.04	3.38	5.70	0.11	0.20	0.33	0.01	0.46	0.77	0.01	0.49	0.83	0.02
EOT 0116 2U-6	1.52	4.37	0.05	2.59	7.46	0.08	0.09	0.25	<0.01	1.96	9.22	0.06	0.19	0.54	0.01
EOT 0120 2C-4							0.19	0.22	0.61						
EQT 0122 2M-1	4.17	5.00	18.26	0.80	0.96	3.50	0.67	0.80	2.94	0.05	0.06	0.23	0.49	0.58	2.13
EQT 0123 2M-2	4.17	5.00	18.26	0.80	0.96	3.50	0.67	0.80	2.94	0.05	0.06	0.23	0.49	0.58	2.13
EQT 0124 2M-3	4.17	5.00	18.26	0.80	0.96	3.50	0.67	0.80	2.94	0.05	0.06	0.23	0.49	0.58	2.13
EQT 0125 2M-4	4.17	5.00	18.26	0.80	0.96	3.50	0.67	0.80	2.94	0.05	0.06	0.23	0.49	0.58	2.13
EOT 0126 2M-5	6.10			1.40			0.55			0.03					1.10
EOT 0127 2M-6	6.10			1.40			0.55			0.03					1.10
EOT 0128 2M-7							0.38	0.46	1.67						
EQT 0200 2C-4A	10.82			18.46			0.62			22.83					1.33
EQT 0201 2C-4B	10.82			18.46			0.62			22.83					1.33
EQT 0202 2A-11A	8.79			15.00			0.50			18.54					1.08
EQT 0203 2M-11B	2.82			4.81			0.16			1.00					0.35
EOT 0204 2M-11C	1.20			5.58			0.40			0.37					0.45
EQT 0205 2M-11D	1.20			5.58			0.40			0.37					0.45
EQT 0206 2M-11E	1.20			5.58			0.40			0.37					0.45
FUG 0006 2U-4													0.26	0.31	1.13
FUG 0008 2M-8													2.66	2.66	11.64
FUG 0009 2M-9													2.85	3.42	0.36
FUG 0010 2M-10													0.33	0.39	0.82

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
<b>Entire Facility</b>															
GRP 0005 24-CAP	6.10		26.74	1.40			6.15	0.55		2.43	0.03		0.12	1.10	
GRP 0011 2C-6	3.30		0.20	5.63			0.34	0.19		0.01	3.66		0.22	0.40	
GRP 0012 2M-11	0.90		0.13	2.11			0.32	0.11		0.02	0.62		0.09	0.16	

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0112 2U-1	Ammonia	2.00	2.40	8.76
EQT 0113 2U-2	Ammonia	2.00	2.40	8.76
EQT 0114 2U-3	Hydrochloric acid	<0.001	<0.001	<0.001
EQT 0117 2C-1	Chlorine	0.24	0.29	1.05
EQT 0118 2C-2	Chlorine	0.002	0.002	0.008
	Hydrochloric acid	0.006	0.007	0.03
EQT 0119 2C-3	Hydrochloric acid	<0.001	<0.001	<0.001
EQT 0120 2C-4	Chlorine	0.10	0.11	0.41
EQT 0122 2M-1	Ammonia	0.45	0.54	1.97
	Benzene	<0.001	<0.001	0.001
	Formaldehyde	0.007	0.008	0.03
	Toluene	<0.001	<0.001	0.001
EQT 0123 2M-2	Ammonia	0.45	0.54	1.97
	Benzene	<0.001	<0.001	0.001
	Formaldehyde	0.007	0.008	0.03
	Toluene	<0.001	<0.001	0.001
EQT 0124 2M-3	Ammonia	0.45	0.54	1.97
	Benzene	<0.001	<0.001	0.001
	Formaldehyde	0.007	0.008	0.03
	Toluene	<0.001	<0.001	0.001
EQT 0125 2M-4	Ammonia	0.45	0.54	1.97
	Benzene	<0.001	<0.001	0.001
	Formaldehyde	0.007	0.008	0.03
	Toluene	<0.001	<0.001	0.001
EQT 0126 2M-5	1,1-Dichloroethane		0.01	
	1,2-Dichloroethane		0.13	
	Acetaldehyde		0.002	
	Ammonia		0.79	
	Benzene		0.001	
	Carbon tetrachloride		0.04	
	Chlorine		1.55	
	Chloroethane		0.03	
	Chloroform		0.03	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0126 2M-5	Chloroprene		0.001	
	Hydrochloric acid		1.59	
	Methyl chloride		0.001	
	Vinyl chloride		0.55	
	Vinylidene chloride		0.003	
EQT 0127 2M-6	1,1-Dichloroethane		0.01	
	1,2-Dichloroethane		0.13	
	Acetaldehyde		0.002	
	Ammonia		0.79	
	Benzene		0.001	
	Carbon tetrachloride		0.04	
	Chlorine		1.55	
	Chloroethane		0.03	
	Chloroform		0.03	
	Chloroprene		0.001	
	Hydrochloric acid		1.59	
	Methyl chloride		0.001	
	Vinyl chloride		0.55	
	Vinylidene chloride		0.003	
EQT 0128 2M-7	Chlorine	0.33	0.40	1.45
FUG 0006 2U-4	Methanol	0.06	0.08	0.27
	Vinyl chloride	0.10	0.12	0.45
FUG 0007 2C-5	Chlorine	0.207	0.207	0.909
	Hydrochloric acid	0.099	0.099	0.433
FUG 0008 2M-8	1,1,2,2-Tetrachloroethane	0.001	0.001	0.005
	1,1,2-Trichloroethane	0.043	0.043	0.187
	1,1-Dichloroethane	0.008	0.008	0.033
	1,2-Dichloroethane	1.490	1.490	6.527
	Ammonia	0.067	0.067	0.293
	Carbon tetrachloride	0.033	0.033	0.146
	Chlorine	0.040	0.040	0.175
	Chloroethane	0.009	0.009	0.039
	Chloroform	0.022	0.022	0.096

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0008 2M-8	Hydrochloric acid	0.292	0.292	1.280
	Vinyl chloride	0.755	0.755	3.307
FUG 0009 2M-9	1,2-Dichloroethane	2.30	2.76	0.29
	Vinyl chloride	0.52	0.62	0.07
FUG 0010 2M-10	1,2-Dichloroethane	0.20	0.24	0.50
	Vinyl chloride	0.13	0.16	0.32
GRP 0005 2M-CAP	1,1-Dichloroethane	0.01		0.04
	1,2-Dichloroethane	0.13		0.55
	Acetaldehyde	0.002		0.007
	Ammonia	0.79		3.44
	Benzene	0.001		0.005
	Carbon tetrachloride	0.04		0.19
	Chlorine	1.55		6.77
	Chloroethane	0.03		0.13
	Chloroform	0.03		0.12
	Chloroprene	0.001		0.005
	Hydrochloric acid	1.59		6.96
	Methyl chloride	0.001		0.005
	Vinyl chloride	0.55		2.39
	Vinylidene chloride	0.003		0.015
UNF 0001 Entire Facility	1,1,2,2-Tetrachloroethane			0.005
	1,1,2-Trichloroethane			0.187
	1,1-Dichloroethane			0.073
	1,2-Dichloroethane			7.867
	Acetaldehyde			0.007
	Ammonia			29.133
	Benzene			0.009
	Carbon tetrachloride			0.336
	Chlorine			10.772
	Chloroethane			0.169
	Chloroform			0.216
	Chloroprene			0.005
	Formaldehyde			0.12

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001 Entire Facility	Hydrochloric acid			8.707
	Methanol			0.27
	Methyl chloride			0.005
	Toluene			0.004
	Vinyl chloride			6.537
	Vinylidene chloride			0.015

**Note:** Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

General Information

AI ID: 126578 Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

Also Known As:	ID	Name	User Group	Start Date
	1280-00118	Shintech - Proposed PVC Plant	CDS Number	02-10-2005
	LA0120529	LPDES #	LPDES Permit #	08-15-2005
	LAR10D207	LPDES #	LPDES Permit #	10-01-2005
	WAC WW 050316-36	Water Quality Certification #	Water Certification	04-05-2005
Physical Location:	26270 Hwy 405 (portion of) Plaquemine, LA 70764			
Mailing Address:	PO Box 358 Addis, LA 707100358			
Location of Front Gate:	30.273056 latitude, -91.173333 longitude.	Coordinate Method: Lat/Long - DMS,	Coordinate Datum: NAD83	
Related People:	Name	Mailing Address	Phone (Type)	Relationship
	James Bell	PO Box 358 Addis, LA 707100358	2256851199 (ext 421	Air Permit Contact For
	James Bell	PO Box 358 Addis, LA 707100358	JBELL@SHIN-TECH+	Air Permit Contact For
	James Bell	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Accident Prevention Billing Party for
	James Bell	PO Box 358 Addis, LA 707100358	JBELL@SHIN-TECH+	Accident Prevention Billing Party for
	James Bell	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Air Permit Contact For
	James Bell	PO Box 358 Addis, LA 707100358	2256851199 (ext 421	Emission Inventory Contact for
	James Bell	PO Box 358 Addis, LA 707100358	JBELL@SHIN-TECH+	Emission Inventory Contact for
	James Bell	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Emission Inventory Contact for
	James Bell	PO Box 358 Addis, LA 707100358	2256851199 (ext 421	Accident Prevention Contact for
	James Bell	PO Box 358 Addis, LA 707100358	JBELL@SHIN-TECH+	Accident Prevention Contact for
	James Bell	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Accident Prevention Contact for
	James Bell	PO Box 358 Addis, LA 707100358	2256851199 (ext 421	Accident Prevention Billing Party for
	James Bell	6060 Perkins Rd Ste 100 Baton Rouge, LA 70808	2257667400 (WP)	Water Certification Contact for
	Paul Clifton	PO Box 358 Addis, LA 707100358	2256851113 (WF)	Responsible Official for
	David Wise	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Responsible Official for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Owns
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Owns
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Operates
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Operates
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Emission Inventory Billing Party
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Water Billing Party for

**General Information**

AI ID: 126578 Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-y1

Air - Title V Regular Permit Minor Mod

Related Organizations:	Name	Address	Phone (Type)	Relationship
Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Air Billing Party for	
Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Air Billing Party for	
Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Emission Inventory Billing Party	
Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Water Billing Party for	

NAIC Codes:  
325211. Plastics Material and Resin Manufacturing

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit.  
 Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

**INVENTORIES**

**AI ID: 1265778 - Shintech Louisiana LLC - Plaquemine PVC Plant**  
**Activity Number: PER20100002**  
**Permit Number: 3063-V1**  
**Air - Title V Regular Permit Minor Mod**

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Entire Facility</b>						
EQT 0112	2U-1 - Boiler A		250 MM BTU/hr	250 MM BTU/hr		8760 hr/yr
EQT 0113	2U-2 - Boiler B		250 MM BTU/hr	250 MM BTU/hr		8760 hr/yr
EQT 0114	2U-3 - 35% HCl Tank Absorber		5.6 ft <sup>3</sup> /hr	5.6 ft <sup>3</sup> /hr		8760 hr/yr
EQT 0115	2U-5 - Ship Dock Emergency Pump		375 horsepower	188 horsepower		65 hr/yr
EQT 0116	2U-6 - Utility Emergency Generator		760 horsepower	152 horsepower		65 hr/yr
EQT 0117	2C-1 - No. 2 Chlorine Scrubber		1.28 MM ft <sup>3</sup> /hr	1.28 MM ft <sup>3</sup> /hr		8760 hr/yr
EQT 0118	2C-2 - HCl Scrubber		9600 ft <sup>3</sup> /hr	9600 ft <sup>3</sup> /hr		8760 hr/yr
EQT 0119	2C-3 - HCl Storage Tank Absorber		20.3 ft <sup>3</sup> /hr	20.3 ft <sup>3</sup> /hr		8760 hr/yr
EQT 0120	2C-4 - GIA Cooling Tower		38750 gallons/min	38750 gallons/min		8760 hr/yr
EQT 0122	2M-1 - Cracking Furnace A		90 MM BTU/hr	90 MM BTU/hr		8760 hr/yr
EQT 0123	2M-2 - Cracking Furnace B		90 MM BTU/hr	90 MM BTU/hr		8760 hr/yr
EQT 0124	2M-3 - Cracking Furnace C		90 MM BTU/hr	90 MM BTU/hr		8760 hr/yr
EQT 0125	2M-4 - Cracking Furnace D		90 MM BTU/hr	90 MM BTU/hr		8760 hr/yr
EQT 0126	2M-5 - Gas Thermal Oxidizer A		72 MM BTU/hr	36 MM BTU/hr		8760 hr/yr
EQT 0127	2M-6 - Gas Thermal Oxidizer B		72 MM BTU/hr	36 MM BTU/hr		8760 hr/yr
EQT 0128	2M-7 - VCM Cooling Tower		106000 gallons/min	106000 gallons/min		8760 hr/yr
EQT 0134	2MTK-491 - No. 1 EDC Intermediate storage					8760 hr/yr
EQT 0135	2MTK-482 - No. 2 EDC Intermediate storage					8760 hr/yr
EQT 0136	2MTK-493 - No. 3 EDC Intermediate storage					8760 hr/yr
EQT 0137	2MTK-494 - No. 4 EDC Intermediate storage					8760 hr/yr
EQT 0138	2MTK-495 - No. 5 EDC Intermediate storage					8760 hr/yr
EQT 0139	2MTK-496 - By-Product Storage					8760 hr/yr
EQT 0140	2MTK-499A - No. 1 By-Product Tank					8760 hr/yr
EQT 0141	2MTK-499B - No. 2 By-Product Tank					8760 hr/yr
EQT 0142	2MTK-719A - No. 1 Wastewater Tank					8760 hr/yr
EQT 0143	2MTK-719B - No. 2 Wastewater Tank					8760 hr/yr
EQT 0144	2MTK-951A - 1st EDC Product Tank					8760 hr/yr
EQT 0145	2MTK-951B - 2nd EDC Product Tank					8760 hr/yr
EQT 0146	2MDCW-1 - Wastewater Streams, acidic washing water					8760 hr/yr
EQT 0147	2MDCW-2 - Wastewater Streams, caustic washing water					8760 hr/yr
EQT 0148	2MOHCW-1 - Wastewater Stream, byproduct water from No. 1 OHC Train					8760 hr/yr
EQT 0149	2MOHCW-2 - Wastewater Stream, byproduct water from No. 2 OHC Train					8760 hr/yr
EQT 0150	2MOHCW-3 - Wastewater Stream, byproduct water from No. 3 OHC Train					8760 hr/yr
EQT 0151	2MOHCW-4 - Wastewater Stream, washing water from OHC train					8760 hr/yr
EQT 0152	2MEP-1 - Wastewater Stream, water from EDC purification column					8760 hr/yr

**INVENTORIES**

**AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant**  
**Activity Number: PER20100002**  
**Permit Number: 3063-V1**  
**Air - Title V Regular Permit Minor Mod**

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Entire Facility</b>						
EQT 0153	2MTKW491 - Wastewater Stream, draw off water from MTK-491					8760 hr/yr
EQT 0154	2MTKW492 - Wastewater Stream, draw off water from MTK-492					8760 hr/yr
EQT 0155	2MTKW695 - Wastewater Stream, draw off water from Neutralizer Tank					8760 hr/yr
EQT 0156	2MCLW693 - Wastewater Stream, draw off water from EMG Vent Scrubber					8760 hr/yr
EQT 0157	2MGTO-1 - Water from the bottom of the scrubber in No. 1 thermal oxidizer					8760 hr/yr
EQT 0158	2MGTO-2 - Water from the bottom of the scrubber in No. 2 thermal oxidizer					8760 hr/yr
EQT 0159	2MGTO-3 - Water from the bottom of the absorber in No. 1 thermal oxidizer					8760 hr/yr
EQT 0160	2MGTO-4 - Water from the bottom of the absorber in No. 2 thermal oxidizer					8760 hr/yr
EQT 0161	2MSW - Process Area Storm Water and Maintenance Wastewater					8760 hr/yr
EQT 0162	2VCLD-RC - VCM Railcar Loading Racks					8760 hr/yr
EQT 0163	2VCLD-SD - VCM Marine Loading Racks					8760 hr/yr
EQT 0164	2EDLD-SD - EDC Railcar Loading Racks					8760 hr/yr
EQT 0165	2MCBFTR - CBF/EDC Loading Racks					8760 hr/yr
EQT 0166	2MTK-501 - Feed Tank					8760 hr/yr
EQT 0200	2C-6A - CIA Emergency Generator A	1881 horsepower	376.2 horsepower	376.2 horsepower	61 horsepower	61 hr/yr
EQT 0201	2C-6B - CIA Emergency Generator B	1881 horsepower	376.2 horsepower	376.2 horsepower	61 horsepower	61 hr/yr
EQT 0202	2M-11A - VCM Emergency Generator A	1528 horsepower	305.6 horsepower	305.6 horsepower	59 horsepower	59 hr/yr
EQT 0203	2M-11B - VCM Emergency Generator B	490 horsepower	98 horsepower	98 horsepower	65 horsepower	65 hr/yr
EQT 0204	2M-11C - VCM Emergency Generator C	180 horsepower	36 horsepower	36 horsepower	59 horsepower	59 hr/yr
EQT 0205	2M-11D - VCM Emergency Generator D	180 horsepower	36 horsepower	36 horsepower	59 horsepower	59 hr/yr
EQT 0206	2M-11E - VCM Emergency Generator E	180 horsepower	36 horsepower	36 horsepower	59 horsepower	59 hr/yr
EQT 0207	2ATK-611C - Hydrochloric Acid Storage Tank	50767 gallons	4.143 MM gallons/yr	4.143 MM gallons/yr	8760 hr/yr	8760 hr/yr
EQT 0208	2ATK-611D - Hydrochloric Acid Storage Tank	50767 gallons	4.143 MM gallons/yr	4.143 MM gallons/yr	8760 hr/yr	8760 hr/yr
FUG 0006	2U-4 - Fugitive Emission (Bio)					8760 hr/yr
FUG 0007	2C-5 - CIA Unit Fugitive Emissions					8760 hr/yr
FUG 0008	2M-8 - VCM Unit Fugitive Emissions					8760 hr/yr
FUG 0009	2M-9 - VCM Unit Fugitive Emissions					180 hr/yr
FUG 0010	2M-10 - VCM Unit Fugitive Emissions					5030 hr/yr
RLP 0010	2MCL-301 - Cracking Furnace Initial Quench Process Vents					8760 hr/yr
RLP 0011	2MCL-302 - Cracking Furnace Initial Quench Process Vents					8760 hr/yr
RLP 0012	2MCL-303 - Cracking Furnace Initial Quench Process Vents					8760 hr/yr
RLP 0013	2MCL-304 - Cracking Furnace Initial Quench Process Vents					8760 hr/yr

INVENTORIES

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

## Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Entire Facility</b>						
RLP 0014	2MRE-203 - OHC Reactor Initial Quench Process Vents					8760 hr/yr
RLP 0015	2MRE-204 - OHC Reactor Initial Quench Process Vents					8760 hr/yr
RLP 0016	2MRE-205 - OHC Reactor Initial Quench Process Vents					8760 hr/yr
RLP 0017	2MRE-101 - Vent from 1st Direct Chlorination Reactor					8760 hr/yr
RLP 0018	2MRE-102 - Vent from 2nd Direct Chlorination Reactor					8760 hr/yr
RLP 0019	2MTK-105 - Vent from Direct Chlorination product separator					8760 hr/yr
RLP 0020	2MHE-212 - Vent from 1st Vent Chiller in OHC Train					8760 hr/yr
RLP 0021	2MHE-213 - Vent from 2nd Vent Chiller in OHC Train					8760 hr/yr
RLP 0022	2MHE-214 - Vent from 3rd Vent Chiller in OHC Train					8760 hr/yr
RLP 0023	2MTK-300 - EDC Feed Tank Vent					8760 hr/yr
RLP 0024	2MCL-231 - 1st Wastewater stripper vent					8760 hr/yr
RLP 0025	2MCL-232 - 2nd Wastewater stripper vent					8760 hr/yr
RLP 0026	2MCL-401 - EDC Purification Drying Column Vent					8760 hr/yr
RLP 0027	2MCL-402 - EDC Purification Lights Column Vent					8760 hr/yr
RLP 0028	2MCL-403 - EDC Purification Hiboi Column Vent					8760 hr/yr
RLP 0029	2MCL-404 - EDC Purification Vacuum Column Vent					8760 hr/yr
RLP 0030	2MCL-405 - EDC Purification Clean-up Column Vent					8760 hr/yr
RLP 0031	2MCL-406 - EDC Purification 2nd Hiboi Column Vent					8760 hr/yr
RLP 0032	2MCL-631 - 1st Misc. Wastewater stripper Vent					8760 hr/yr
RLP 0033	2MCL-632 - 2nd Misc. Wastewater stripper Vent					8760 hr/yr
RLP 0034	2MCL-633 - 1st Acid Wastewater stripper Vent					8760 hr/yr
RLP 0035	2MCL-634 - 2nd Acid Wastewater stripper Vent					8760 hr/yr
RLP 0036	2MCL-204 - OHC Train CO2 Stripper Process Vents					8760 hr/yr
RLP 0037	2MCL-205 - OHC Train CO2 Stripper Process Vents					8760 hr/yr
RLP 0038	2MRE-103 - DC Reactor Process Vent					8760 hr/yr
RLP 0044	2MCL-635 - Wastewater stripper Vent					8760 hr/yr

## Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>Entire Facility</b>							
EQT 0112	2U-1 - Boiler A	54.1	74300	5.4		100	300
EQT 0113	2U-2 - Boiler B	54.1	74300	5.4		100	300
EQT 0114	2U-3 - 35% HCl Tank Absorber	.68	3.5	.33		46	70
EQT 0117	2C-1 - No. 2 Chlorine Scrubber	34.9	21333	3.6		65	110
EQT 0118	2C-2 - HCl Scrubber	31.2	160	.33		80	110
EQT 0119	2C-3 - HCl Storage Tank Absorber	.1	.33	.25		50	110

**INVENTORIES**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**Stack Information:**

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
<b>Entire Facility</b>							
EQT 0120	2C-4 - C/A Cooling Tower	26.5		1885		50	- 100
EQT 0122	2M-1 - Cracking Furnace A	11.3	27500	7.2		130	- 300
EQT 0123	2M-2 - Cracking Furnace B	11.3	27500	7.2		130	- 300
EQT 0124	2M-3 - Cracking Furnace C	11.3	27500	7.2		130	- 300
EQT 0125	2M-4 - Cracking Furnace D	11.3	27500	7.2		130	- 300
EQT 0126	2M-5 - Gas Thermal Oxidizer A	23.6	40078	6		80	- 300
EQT 0127	2M-6 - Gas Thermal Oxidizer B	23.6	40078	6		80	- 300
EQT 0128	2M-7 - VCM Cooling Tower	24.5		6434		46	- 100

**Relationships:**

ID	Description	Relationship	ID	Description
EQT 0134	2NTK-491 - No. 1 EDC Intermediate storage	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EOT 0135	2NTK-492 - No. 2 EDC Intermediate storage	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EOT 0136	2NTK-493 - No. 3 EDC Intermediate storage	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EOT 0137	2NTK-494 - No. 4 EDC Intermediate storage	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EOT 0138	2NTK-495 - No. 5 EDC Intermediate storage	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EQT 0139	2NTK-496 - By-Product Storage	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EOT 0140	2NTK-499A - No. 1 By-Product Tank	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EQT 0141	2NTK-499B - No. 2 By-Product Tank	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EQT 0142	2NTK-719A - No. 1 Wastewater Tank	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EQT 0143	2NTK-719B - No. 2 Wastewater Tank	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EQT 0144	2NTK-951A - 1st EDC Product Tank	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EQT 0145	2NTK-951B - 2nd EDC Product Tank	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EQT 0146	2MDCW-1 - Wastewater Streams, acidic washing water	Vents to	RLP 0034	2MCL-633 - 1st Acid Wastewater stripper vent
EQT 0147	2MDCW-2 - Wastewater Streams, caustic washing water	Vents to	RLP 0035	2MCL-634 - 2nd Acid Wastewater stripper vent
EQT 0148	2MOHCW-1 - Wastewater Stream, byproduct water from No. 1 OHC Train	Vents to	RLP 0024	2MCL-231 - 1st Wastewater stripper vent
EOT 0148	2MOHCW-1 - Wastewater Stream, byproduct water from No. 1 OHC Train	Vents to	RLP 0025	2MCL-232 - 2nd Wastewater stripper vent
EQT 0149	2MOHCW-2 - Wastewater Stream, byproduct water from No. 2 OHC Train	Vents to	RLP 0024	2MCL-231 - 1st Wastewater stripper vent
EOT 0150	2MOHCW-3 - Wastewater Stream, byproduct water from No. 3 OHC Train	Vents to	RLP 0024	2MCL-231 - 1st Wastewater stripper vent
EOT 0150	2MOHCW-3 - Wastewater Stream, byproduct water from No. 3 OHC Train	Vents to	RLP 0025	2MCL-232 - 2nd Wastewater stripper vent

**INVENTORIES**

**AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant**  
**Activity Number: PER20100002**  
**Permit Number: 3063-v1**  
**Air - Title V Regular Permit Minor Mod**

**Relationships:**

ID	Description	Relationship	ID	Description
EQT 0151	2M0HGW-4 - Wastewater Stream, washing water from OH C train	Vents to	RLP 0044	2MCL-635 - Wastewater stripper Vent
EQT 0152	2MFP-1 - Wastewater Stream, water from EDC purification column	Vents to	RLP 0044	2MCL-635 - Wastewater stripper Vent
EQT 0153	2MTKw491 - Wastewater Stream, draw off water from MTK-491	Vents to	RLP 0044	2MCL-635 - Wastewater stripper Vent
EQT 0154	2MTKw492 - Wastewater Stream, draw off water from MTK-492	Vents to	RLP 0044	2MCL-635 - Wastewater stripper Vent
EQT 0155	2MTKw695 - Wastewater Stream, draw off water from Neutralizer Tank	Vents to	RLP 0044	2MCL-635 - Wastewater stripper Vent
EQT 0156	2MCLW693 - Wastewater Stream, draw off water from EMG Vent Scrubber	Vents to	RLP 0044	2MCL-635 - Wastewater stripper Vent
EQT 0161	2MSW - Process Area Storm Water and Maintenance Wastewater	Vents to	RLP 0032	2MCL-631 - 1st Misc. Wastewater stripper Vent
EQT 0162	2VCLD-RC - VCM Railcar Loading Racks	Vents to	RLP 0033	2MCL-632 - 2nd Misc. Wastewater stripper Vent
EQT 0163	2VCLD-SD - VCM Marine Loading Racks	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EQT 0164	2EDLD-SD - EDC Railcar Loading Racks	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EQT 0165	2MCBFR - CBF/EDC Loading Racks	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EQT 0166	2MTK-501 - Feed Tank	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
EQT 0207	2ATK-611C - Hydrochloric Acid Storage Tank	Vents to	EQT 0119	2C-3 - HCl Storage Tank Absorber
EQT 0208	2ATK-611D - Hydrochloric Acid Storage Tank	Vents to	EQT 0119	2C-3 - HCl Storage Tank Absorber
RLP 0010	2MCL-301 - Cracking Furnace Initial Quench Process Vents	Controlled by	EQT 0122	2M-1 - Cracking Furnace A
RLP 0011	2MCL-302 - Cracking Furnace Initial Quench Process Vents	Controlled by	EQT 0123	2M-2 - Cracking Furnace B
RLP 0012	2MCL-303 - Cracking Furnace Initial Quench Process Vents	Controlled by	EQT 0124	2M-3 - Cracking Furnace C
RLP 0013	2MCL-304 - Cracking Furnace Initial Quench Process Vents	Controlled by	EQT 0125	2M-4 - Cracking Furnace D
RLP 0014	2MRE-203 - OHC Reactor Initial Quench Process Vents	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0015	2MRE-204 - OHC Reactor Initial Quench Process Vents	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0016	2MRE-205 - OHC Reactor Initial Quench Process Vents	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0017	2MRE-101 - Vent from 1st Direct Chlorination Reactor	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0018	2MRE-102 - Vent from 2nd Direct Chlorination Reactor	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0019	2MTK-105 - Vent from Direct Chlorination product separator	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0020	2MHE-212 - Vent from 1st Vent Chiller in OH C Train	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0021	2MHE-213 - Vent from 2nd Vent Chiller in OH C Train	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0022	2MHE-214 - Vent from 3rd Vent Chiller in OH C Train	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0023	2MTK-300 - EDC Feed Tank Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0024	2MCL-231 - 1st Wastewater stripper vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0025	2MCL-232 - 2nd Wastewater stripper vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0026	2MCL-401 - EDC Purification Drying Column Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0027	2MCL-402 - EDC Purification Lights Column Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0028	2MCL-403 - EDC Purification Hiboil Column Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0029	2MCL-404 - EDC Purification Vacuum Column Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0030	2MCL-405 - EDC Purification Clean-up Column Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP

**INVENTORIES**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**Relationships:**

ID	Description	Relationship	ID	Description
RLP 0031	2MCL-406 - EDC Purification 2nd Hibil Column Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0032	2MCL-631 - 1st Misc. Wastewater stripper Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0033	2MCL-632 - 2nd Misc. Wastewater stripper Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0034	2MCL-633 - 1st Acid Wastewater stripper Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0035	2MCL-634 - 2nd Acid Wastewater stripper Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0036	2MCL-204 - OHC Train CO2 Stripper Process Vents	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0037	2MCL-205 - OHC Train CO2 Stripper Process Vents	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0038	2MRE-103 - DC Reactor Process Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP
RLP 0044	2MCL-635 - Wastewater stripper Vent	Vents to	GRP 0005	2M-CAP - Gas Thermal Oxidizers CAP

**Subject Item Groups:**

ID	Group Type	Group Description
GRP 0005	Equipment Group	2M-CAP - Gas Thermal Oxidizers CAP
GRP 0011	Equipment Group	2C-6 - C/A Emergency Generators
GRP 0012	Equipment Group	2M-11 - VCM Emergency Generators
UNF 0001	Unit or Facility Wide	Entire Facility - Entire Facility

**Group Membership:**

ID	Description	Member of Groups
EOT 0126	2M-5 - Gas Thermal Oxidizer A	GRP0000000005
EOT 0127	2M-6 - Gas Thermal Oxidizer B	GRP0000000005
EOT 0200	2C-6A - C/A Emergency Generator A	GRP0000000011
EOT 0201	2C-6B - C/A Emergency Generator B	GRP0000000011
EOT 0202	2M-11A - VCM Emergency Generator A	GRP0000000012
EOT 0203	2M-11B - VCM Emergency Generator B	GRP0000000012
EOT 0204	2M-11C - VCM Emergency Generator C	GRP0000000012
EOT 0205	2M-11D - VCM Emergency Generator D	GRP0000000012
EOT 0206	2M-11E - VCM Emergency Generator E	GRP0000000012

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

**Annual Maintenance Fee:**

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0690	0690 Chemical and Chemical Prep. N.E.C. (Rated Capacity)	1800	MM lbs/yr
2812	Alkalies and chlorine		AI 126578

**SIC Codes:**

2812	Alkalies and chlorine
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**INVENTORIES**

AJ ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
Activity Number: PER20100002  
Permit Number: 3063-V1  
Air - Title V Regular Permit Minor Mod

SIC Codes:	
2821	Plastics materials and resins
2899	Chemical preparations, nac

126578  
126578

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0112 2U-1 - Boiler A**

- 1 [40 CFR 60.44b]
- 2 [40 CFR 60.49b(a)]
- 3 [40 CFR 60.49b(d)]
- 4 [40 CFR 60.49b(o)]
- 5 [LAC 33:III.1101.B]
- 6 [LAC 33:III.1313.C]
- 7 [LAC 33:II.504]
- 8 [LAC 33:III.509]

Nitrogen oxides <= 0.20 lb/MMBTU heat input (expressed as NO<sub>2</sub>), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.

Which Months: All Year Statistical Basis: Thirty-day rolling average

Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]

Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]

Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input. (Complies by using sweet natural gas as fuel.)

Which Months: All Year Statistical Basis: None specified  
 LAER is good combustion practices, low NO<sub>x</sub> burners, and selective catalytic reduction to limit NO<sub>x</sub> emissions to 0.01 lb/MM BTU and VOC emissions to 0.0026 lb/MM BTU.

Comply with all applicable provisions of PSD-LA-731. BACT is low NO<sub>x</sub> burners, selective catalytic reduction, good combustion and clean burning fuel to limit PM10 emissions to 0.005 lb/MM BTU, NO<sub>x</sub> emissions to 0.01 lb/MM BTU, and CO emissions to 0.0362 lb/MM BTU.

**EQT 0113 2U-2 - Boiler B**

- 9 [40 CFR 60.44b]
- 10 [40 CFR 60.49b(a)]
- 11 [40 CFR 60.49b(d)]
- 12 [40 CFR 60.49b(o)]

Nitrogen oxides <= 0.20 lb/MMBTU heat input (expressed as NO<sub>2</sub>), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.

Which Months: All Year Statistical Basis: Thirty-day rolling average

Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]

Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]

Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

**EQT 0113 2U-2 - Boiler B**

- 13 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified  
Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified  
LAER is good combustion practices, low NOx burners, and selective catalytic reduction to limit NOx emissions to 0.01 lb/MM BTU and VOC emissions to 0.0026 lb/MM BTU.  
Comply with all applicable provisions of PSD-LA-731. BACT is low NOx burners, selective catalytic reduction, good combustion and clean burning fuel to limit PM10 emissions to 0.005 lb/MM BTU, NOx emissions to 0.01 lb/MM BTU, and CO emissions to 0.0362 lb/MM BTU.

**EQT 0115 2U-5 - Ship Dock Emergency Pump**

- 17 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified  
Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified  
Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP and 0.0007 lb/HP-hr if the Engines > 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

**EQT 0116 2U-6 - Utility Emergency Generator**

- 20 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified  
Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified  
Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP and 0.0007 lb/HP-hr if the Engines > 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

**EQT 0120 2C-4 - C/A Cooling Tower**

**SPECIFIC REQUIREMENTS**

AJ ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0120 2C-4 - C/A Cooling Tower**

23 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

Comply with all applicable provisions of PSD-LA-731. BACT is good design, maintenance, and use of mist eliminators to limit PM10 emissions to 0.00008 lb/MM gal.

**EQT 0122 2M-1 - Cracking Furnace A**

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO2, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.

Modify and/or install and bring into normal operation NOx control equipment and/or NOx monitoring systems in accordance with LAC 33:III.Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202.

Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202.

Complete all initial compliance testing, specified by LAC 33:III.2201.G, for equipment modified with NOx reduction controls or a NOx monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period, but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202.

LAER is low NOx burners, selective catalytic reduction, and good combustion practices to limit NOx emissions to 0.009 lb/MM BTU and VOC emissions to 0.005 lb/MM BTU.

Comply with all applicable provisions of PSD-LA-731. BACT is low NOx burners, selective catalytic reduction, clean burning fuels, and good combustion practices to limit PM10 emissions to 0.007 lb/MM BTU, NOx emissions to 0.009 lb/MM BTU, and CO emissions to 0.046 lb/MM BTU.

**EQT 0123 2M-2 - Cracking Furnace B**

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER2010002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0123 2M-2 - Cracking Furnace B**

- 34 [LAC 33:III.1313.C] Total suspended particulate  $\leq 0.6 \text{ lb/MMBTU}$  of heat input.  
 Which Months: All Year Statistical Basis: None specified  
 Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO2, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.
- 35 [LAC 33:III.2201.G.2] Modify and/or install and bring into normal operation NOx control equipment and/or NOx monitoring systems in accordance with LAC 33:III.Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202.
- 36 [LAC 33:III.2201.J.1] Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202.
- 37 [LAC 33:III.2201.J.2] Complete all initial compliance testing, specified by LAC 33:III.2201.G, for equipment modified with NOx reduction controls or a NOx monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period, but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202.
- 38 [LAC 33:III.2201.J.3] LAER is low NOx burners, selective catalytic reduction, and good combustion practices to limit NOx emissions to 0.009 lb/MM BTU and VOC emissions to 0.005 lb/MM BTU.
- 39 [LAC 33:III.504] Complete with all applicable provisions of PSD-LA-731. BACT is low NOx burners, selective catalytic reduction, clean burning fuels, and good combustion practices to limit PM10 emissions to 0.007 lb/MM BTU, NOx emissions to 0.009 lb/MM BTU, and CO emissions to 0.046 lb/MM BTU.

**EQT 0124 2M-3 - Cracking Furnace C**

- 40 [LAC 33:III.509] Opacity  $\leq 20$  percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 41 [LAC 33:III.1101.B] Which Months: All Year Statistical Basis: None specified  
 Total suspended particulate  $\leq 0.6 \text{ lb/MMBTU}$  of heat input.  
 Which Months: All Year Statistical Basis: None specified  
 Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO2, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.
- 42 [LAC 33:III.1313.C] Modify and/or install and bring into normal operation NOx control equipment and/or NOx monitoring systems in accordance with LAC 33:III.Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202.
- 43 [LAC 33:III.2201.G.2] Complete all initial compliance testing, specified by LAC 33:III.2201.G, for equipment modified with NOx reduction controls or a NOx monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period, but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202.

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air • Title V Regular Permit Minor Mod**

**EQT 0124 2M-3 - Cracking Furnace C**

- 46 [LAC 33:III.2201.J.2] Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202.  
 LAER is low NO<sub>x</sub> burners, selective catalytic reduction, and good combustion practices to limit NO<sub>x</sub> emissions to 0.009 lb/MM BTU and VOC emissions to 0.005 lb/MM BTU.
- 47 [LAC 33:III.504] Comply with all applicable provisions of PSD-LA-731. BACT is low NO<sub>x</sub> burners, selective catalytic reduction, clean burning fuels, and good combustion practices to limit PM10 emissions to 0.007 lb/MM BTU, NO<sub>x</sub> emissions to 0.009 lb/MM BTU, and CO emissions to 0.046 lb/MM BTU.
- 48 [LAC 33:III.509]

**EQT 0125 2M-4 - Cracking Furnace D**

- 49 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None specified  
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
 Which Months: All Year Statistical Basis: None specified  
 Perform NO<sub>x</sub> emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NO<sub>x</sub> emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO<sub>2</sub>, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.  
 Modify and/or install and bring into normal operation NO<sub>x</sub> control equipment and/or NO<sub>x</sub> monitoring systems in accordance with LAC 33:III.Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202.  
 Complete all initial compliance testing, specified by LAC 33:III.2201.G, for equipment modified with NO<sub>x</sub> reduction controls or a NO<sub>x</sub> monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period, but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202.  
 Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202.  
 LAER is low NO<sub>x</sub> burners, selective catalytic reduction, and good combustion practices to limit NO<sub>x</sub> emissions to 0.009 lb/MM BTU and VOC emissions to 0.005 lb/MM BTU.
- 50 [LAC 33:III.1313.C]
- 51 [LAC 33:III.2201.G.2]
- 52 [LAC 33:III.2201.J.1]
- 53 [LAC 33:III.2201.J.2]
- 54 [LAC 33:III.2201.J.2]
- 55 [LAC 33:III.504]
- 56 [LAC 33:III.509] Comply with all applicable provisions of PSD-LA-731. BACT is low NO<sub>x</sub> burners, selective catalytic reduction, clean burning fuels, and good combustion practices to limit PM10 emissions to 0.007 lb/MM BTU, NO<sub>x</sub> emissions to 0.009 lb/MM BTU, and CO emissions to 0.046 lb/MM BTU.

**EQT 0126 2M-5 - Gas Thermal Oxidizer A**

- 57 [40 CFR 60.48c(g)(1)] Fuel rate recordkeeping by electronic or hard copy daily. Keep records of the amount of each fuel combusted during each day. Subpart Dc. [40 CFR 60.48c(g)(1)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**EQT 0126 2M-5 - Gas Thermal Oxidizer A**

- 58 [40 CFR 60.48c(g)(3)] Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total amount of fuel for the unit delivered to the property during each calendar month. Subpart Dc. [40 CFR 60.48c(g)(3)]
- 59 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 60 [40 CFR 61.343(a)(1)(i)(B)] Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 61 [40 CFR 61.343(a)(1)] Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 62 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- 63 [40 CFR 61.343(d)] Which Months: All Year Statistical Basis: None Specified Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 64 [40 CFR 61.343(e)] Meet the requirements specified in 40 CFR 63.343(e)(1) through (e)(4). Subpart FF. [40 CFR 61.343(e)]
- 65 [40 CFR 61.355] Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
- 66 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart F.
- 67 [40 CFR 61.65(b)(9)(iii)] Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]
- 68 [40 CFR 61.67(a)(2)] Test emissions from the source within 90 days of startup. Conduct test as specified in 40 CFR 61.67(c) through (g). Subpart F. [40 CFR 61.67(a)(2)]
- 69 [40 CFR 61.68] Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a), and 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.
- 70 [40 CFR 63.103(b)(2)] Which Months: All Year Statistical Basis: None Specified Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 71 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 72 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0126 2M-5 - Gas Thermal Oxidizer A**

- 73 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G.  
 [40 CFR 63.122(a)(4)]
- 74 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group I status and is in operation. Subpart G.
- 75 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- Which Months: All Year Statistical Basis: None specified
- Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- Which Months: All Year Statistical Basis: None specified
- VOC, Total >= 95 % control efficiency. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
- Determine compliance with LAC 33:III.2103.E using the methods in LAC 33:III.2103.H.2-a-e, where appropriate.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
- Which Months: All Year Statistical Basis: None specified
- Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- LAER is good combustion practices and clean burning fuels to limit NOx emissions to 0.02 lb/MM BTU and VOC emissions to 0.015 lb/MM BTU.
- Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices and clean burning fuels to limit PM10 emissions to 0.0077 lb/MM BTU, NOx emissions to 0.02 lb/MM BTU, and CO emissions to 0.08 lb/MM BTU.

**SPECIFIC REQUIREMENTS**

AI ID: 1266578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**EQT 0127 2M-6 - Gas Thermal Oxidizer B**

- 89 [40 CFR 60.48c(b)(1)] Fuel rate recordkeeping by electronic or hard copy daily. Keep records of the amount of each fuel combusted during each day. Subpart Dc. [40 CFR 60.48c(b)(1)]
- 90 [40 CFR 60.48c(b)(3)] Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total amount of fuel for the unit delivered to the property during each calendar month. Subpart Dc. [40 CFR 60.48c(b)(3)]
- 91 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 92 [40 CFR 61.343(a)(1)(i)(B)] Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 93 [40 CFR 61.343(a)(1)] Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 94 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- 95 [40 CFR 61.343(d)] Which Months: All Year Statistical Basis: None specified Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 96 [40 CFR 61.343(e)] Meet the requirements specified in 40 CFR 63.343(e)(1) through (e)(4). Subpart FF. [40 CFR 61.343(e)]
- 97 [40 CFR 61.355] Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
- 98 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart F.
- 99 [40 CFR 61.65(b)(9)(ii)] Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]
- 100 [40 CFR 61.67(a)(2)] Test emissions from the source within 90 days of startup. Conduct test as specified in 40 CFR 61.67(c) through (g). Subpart F. [40 CFR 61.67(a)(2)]
- 101 [40 CFR 61.68] Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a), and 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2). Subpart F.
- 102 [40 CFR 63.103(b)(2)] Which Months: All Year Statistical Basis: None specified Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 103 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

**SPECIFIC REQUIREMENTS**

AI ID: 1265578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**EQT 0127 2M-6 - Gas Thermal Oxidizer B**

- 104 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 105 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 106 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- 107 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 108 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 109 [LAC 33:III.2103.E.1] Which Months: All Year Statistical Basis: None specified VOC, Total >= 95 % control efficiency. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- 110 [LAC 33:III.2103.H.2] Which Months: All Year Statistical Basis: None specified Determine compliance with LAC 33:III.2103.E using the methods in LAC 33:III.2103.H.2-a-e, where appropriate.
- 111 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 112 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 113 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
- 114 [LAC 33:III.2115.I] Which Months: All Year Statistical Basis: None specified Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 115 [LAC 33:III.2115.J.] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 116 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 117 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable, but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- 118 [LAC 33:III.2115.K] LAER is good combustion practices and clean burning fuels to limit NOx emissions to 0.02 lb/MM BTU and VOC emissions to 0.015 lb/MM BTU.
- 119 [LAC 33:III.504]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0127 2M-6 - Gas Thermal Oxidizer B**

120 [LAC 33:III.509]

Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices and clean burning fuels to limit PM10 emissions to 0.0077 lb/MM BTU, NOx emissions to 0.02 lb/MM BTU, and CO emissions to 0.08 lb/MM BTU.

**EQT 0128 2M-7 - VCM Cooling Tower**

121 [40 CFR 63.103(e)]

Retain information, data and analysis used to determine that the chemical manufacturing process unit does not use as a reactant or manufacture as a product or co-product any organic hazardous air pollutant; OR when requested by DEQ, demonstrate that the chemical manufacturing process unit does not use as a reactant or manufacture as a product or co-product any organic hazardous air pollutant. Subpart F. [40 CFR 63.103(e)]  
 Comply with all applicable provisions of PSD-LA-731. BACT is good design, maintenance, and use of mist eliminators to limit PM10 emissions to 0.00006 lb/M gal.

**EQT 0134 2MTK-491 - No. 1 EDC Intermediate storage**

123 [40 CFR 63.103(b)(2)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]  
 Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

124 [40 CFR 63.103(b)(3)]

Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]

125 [40 CFR 63.119(a)(1)]

Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]

126 [40 CFR 63.119(a)(2)]

Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]

127 [40 CFR 63.122(a)(3)]

Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]

128 [40 CFR 63.122(a)(4)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group I status and is in operation. Subpart G.

129 [40 CFR 63.123]

Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.

Which Months: All Year Statistical Basis: None specified

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**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

**EQT 0134 2MTK-491 - No. 1 EDC Intermediate storage**

VOC, Total  $\geq$  90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.

Which Months: All Year Statistical Basis: None specified

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT 0135 2MTK-492 - No. 2 EDC Intermediate storage**

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]

Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]

Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]

Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.

Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.

Which Months: All Year Statistical Basis: None specified

VOC, Total  $\geq$  90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.

Which Months: All Year Statistical Basis: None specified

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

**EQT 0135 2MTK-492 - No. 2 EDC Intermediate storage**

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT 0136 2MTK-493 - No. 3 EDC Intermediate storage**

- Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- Reduce hazardous air pollutant emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
Which Months: All Year Statistical Basis: None specified
- VOC, Total  $\geq$  90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
Which Months: All Year Statistical Basis: None specified
- Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT 0137 2MTK-494 - No. 4 EDC Intermediate storage**

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

**EQT 0137 2MTK-494 - No. 4 EDC Intermediate storage**

- 159 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 160 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 161 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- 162 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system, as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- 163 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 164 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 165 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group I status and is in operation. Subpart G.
- 166 [LAC 33:III.2101.A] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- 167 [LAC 33:III.2103.E.1] VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
Which Months: All Year Statistical Basis: None specified
- 168 [LAC 33:III.2103.E.2] VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
Which Months: All Year Statistical Basis: None specified
- 169 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 170 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT 0138 2MTK-495 - No. 5 EDC Intermediate storage**

- 171 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 172 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

**EQT 0138 2MTK-495 - No. 5 EDC Intermediate storage**

- Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
- VOC, Total  $\geq$  90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
- Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT 0139 2MTK-496 - By-Product Storage**

- Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**EQT 0139 2MTK-496 - By-Product Storage**

- 186 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]  
 Which Months: All Year Statistical Basis: None specified
- 187 [40 CFR 61.343(d)] Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 188 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 189 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 190 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 191 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutant emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- 192 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- 193 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 194 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 195 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group I status and is in operation. Subpart G.
- 196 [LAC 33:III.2|03.A] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- 197 [LAC 33:III.2|03.E.1] VOC. Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
 Which Months: All Year Statistical Basis: None specified
- 198 [LAC 33:III.2|03.E.2] VOC. Total  $\geq$  90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.  
 Which Months: All Year Statistical Basis: None specified
- 199 [LAC 33:III.2|03.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2|03.H.3 a-e.

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT\_0139 2MTK-496 - By-Product Storage**

200 [LAC 33:III.2103.1]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.1.1 - 7, as applicable.

**EQT\_0140 2MTK-499A - No. 1 By-Product Tank**

- 201 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 202 [40 CFR 61.343(a)(1)(i)(B)] Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 203 [40 CFR 61.343(a)(1)] Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 204 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- 205 [40 CFR 61.343(d)] Which Months: All Year Statistical Basis: None specified Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 206 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 207 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 208 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 209 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(o), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- 210 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- 211 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 212 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**EQT 0140 2MTK-499A - No. 1 By-Product Tank**

- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- VOC, Total  $\geq 95\%$  control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
- VOC, Total  $\geq 90\%$  control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
- Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT 0141 2MTK-499B - No. 2 By-Product Tank**

- Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- Which Months: All Year Statistical Basis: None specified
- Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or basket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0141 2MTK-499B - No. 2 By-Product Tank**

- Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof; an external floating roof, an external floating roof converted to an internal floating roof; a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.119(a)(1)].
- Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
- VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
- Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3-a-e.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT 0142 2MTK-719A - No. 1 Wastewater Tank**

- Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116(b)(a). Subpart Kb. [40 CFR 60.116(b)]
- VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years.
- Subpart Kb. [40 CFR 60.116(b)(c)]

**SPECIFIC REQUIREMENTS**

AI ID: 1265578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**EQT 0142 2MTK-719A - No. 1 Wastewater Tank**

- 239 [40 CFR 60.116b(f)(2)] Vapor pressure monitored by physical testing once initially and once every six months using the methods specified in 40 CFR 60.116b(f)(2)(i) through (iii). Subpart Kb. [40 CFR 60.116b(f)(2)]
- Which Months: All Year Statistical Basis: None specified
- Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(h)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 240 [40 CFR 63.102(a)]
- 241 [40 CFR 63.103(b)(1)]
- 242 [40 CFR 63.103(b)(2)]
- 243 [40 CFR 63.103(b)(3)]
- 244 [40 CFR 63.103(c)(1)]
- 245 [40 CFR 63.103(c)(2)]
- 246 [40 CFR 63.103(c)]
- 247 [40 CFR 63.104(d)]
- 248 [40 CFR 63.104(f)]
- 249 [40 CFR 63.105(d)]
- 250 [40 CFR 63.105]
- EQT 0143 2MTK-719B - No. 2 Wastewater Tank**
- 251 [40 CFR 60.116b(b)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0143 2MTK-719B - No. 2 Wastewater Tank**

- VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years.
- Subpart Kb. [40 CFR 60.116(b)(c)]
- Vapor pressure monitored by physical testing once initially and once every six months using the methods specified in 40 CFR 60.116b(1)(2)(i)
- through (iii). Subpart Kb. [40 CFR 60.116b(1)(2)]
- Which Months: All Year Statistical Basis: None specified
- Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.

**EQT 0146 2MDCW-1 - Wastewater Streams, acidic washing water**

- Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**EQT 0146 2MDCW-1 - Wastewater Streams, acidic washing water**

- 266 [40 CFR 63.132(b)(2)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]
- 267 [40 CFR 63.132(c)] Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(c)]
- 268 [40 CFR 63.132(d)] Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]
- 269 [40 CFR 63.132(f)] Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]
- 270 [40 CFR 63.138(g)] Required mass removal (RMR): Organic HAP >= 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
- 271 [40 CFR 63.138(j)] Which Months: All Year Statistical Basis: None specified Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]
- 272 [40 CFR 63.138(k)(2)] Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]
- 273 [40 CFR 63.147] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
- 274 [40 CFR 63.149(a)] Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

**EQT 0147 2MDCW-2 - Wastewater Streams, caustic washing water**

- 275 [40 CFR 63.132(b)(1)] Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
- 276 [40 CFR 63.132(b)(2)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]
- 277 [40 CFR 63.132(c)] Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream Subpart G. [40 CFR 63.132(c)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-Y1  
 Air - Title V Regular Permit Minor Mod

**EQT 0147 2MDCW-2 - Wastewater Streams, caustic washing water**

- 278 [40 CFR 63.132(d)] Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]
- Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]
- Required mass removal (RMR): Organic HAP  $\geq$  95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
- Which Months: All Year Statistical Basis: None specified
- Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]
- Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
- Comply with the provisions of 40 CFR 63. Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

**EQT 0148 2MOHCW-1 - Wastewater Stream, byproduct water from No. 1 OHC Train**

- Inprocess wastewater (vinyl chloride  $> 10\text{ppm}$ ): Vinyl chloride  $\leq 10\text{ ppmw}$  before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(iii)]
- Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
- Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]
- Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream Subpart G. [40 CFR 63.132(c)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**EQT 0148 2MOHCW-1 - Wastewater Stream, byproduct water from No. 1 OHC Train**

290 [40 CFR 63.132(d)] Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]

Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]

Required mass removal (RMR): Organic HAP >= 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]

Which Months: All Year Statistical Basis: None specified Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]

Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (l), as applicable. Subpart G. Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

**EQT 0149 2MOHCW-2 - Wastewater Stream, byproduct water from No. 2 OHC Train**

Inprocess wastewater (vinyl chloride > 10ppm): Vinyl chloride <= 10 ppmw before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]

Which Months: All Year Statistical Basis: None specified

Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]

Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]

Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]

Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream Subpart G. [40 CFR 63.132(c)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0149 2MOHCW-2 - Wastewater Stream, byproduct water from No. 2 OHC Train**

Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]

Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]

Required mass removal (RMR): Organic HAP  $\geq$  95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]  
 Which Months: All Year Statistical Basis: None specified Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]

Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (l), as applicable. Subpart G.  
 Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

**EQT 0150 2MOHCW-3 - Wastewater Stream, byproduct water from No. 3 OHC Train**

Inprocess wastewater (vinyl chloride  $> 10\text{ppm}$ ): Vinyl chloride  $\leq 10\text{ ppm}$  before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride, before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]

Which Months: All Year Statistical Basis: None specified Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)] Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)] Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(c)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaqueamine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0150 2MOHCW-3 - Wastewater Stream, byproduct water from No. 3 OHC Train**

314 [40 CFR 63.132(d)] Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]

315 [40 CFR 63.132(f)] Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]

316 [40 CFR 63.138(g)] Required mass removal (RMR): Organic HAP  $\geq$  95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]  
 Which Months: All Year Statistical Basis: None specified  
 Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]

317 [40 CFR 63.138(j)] Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.  
 Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

**EQT 0151 2MOHCW-4 - Wastewater Stream, washing water from OHC train**

321 [40 CFR 61.65(b)(9)(i)] Inprocess wastewater (vinyl chloride  $> 10\text{ppm}$ ): Vinyl chloride  $\leq 10\text{ ppmw}$  before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]  
 Which Months: All Year Statistical Basis: None specified

Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]  
 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]  
 Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]  
 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream Subpart G. [40 CFR 63.132(c)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-Y1  
**Air - Title V Regular Permit Minor Mod**

**EQT 0151 2MOHCW-4 - Wastewater Stream, washing water from OHC train**

326 [40 CFR 63.132(d)] Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]

Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]

Required mass removal (RMR): Organic HAP  $\geq$  95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]

Which Months: All Year Statistical Basis: None specified

Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]

Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.  
Comply with the provisions of 40 CFR 63. Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

**EQT 0152 2MEP-1 - Wastewater Stream, water from EDC purification column**

Inprocess wastewater (vinyl chloride  $> 10\text{ppm}$ ): Vinyl chloride  $\leq 10\text{ ppmw}$  before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(ii)]

Which Months: All Year Statistical Basis: None specified

Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]

Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]

Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]

Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream Subpart G. [40 CFR 63.132(c)]

**SPECIFIC REQUIREMENTS**

**AI ID:** 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063.V1  
**Air - Title V Regular Permit Minor Mod**

**EQT 0152 2MEP-1 - Wastewater Stream, water from EDC purification column**

Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]

Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]

Required mass removal (RMR): Organic HAP  $\geq 95$  percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]  
 Which Months: All Year Statistical Basis: None specified

Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]

Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.  
 Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

**EQT 0162 2VCLD-RC - VCM Railcar Loading Racks**

Loading and unloading lines: Vinyl chloride  $\leq 0.0038 \text{ m}^3$  (0.13 ft<sup>3</sup>) at standard pressure, in all parts of each loading or unloading line that are to be opened to the atmosphere, after each loading or unloading operation and before opening a loading or unloading line to the atmosphere. Subpart F. [40 CFR 61.65(b)(1)(i)]

Which Months: All Year Statistical Basis: None specified

Loading and unloading lines: Duct any vinyl chloride removed from a loading or unloading line in accordance with 40 CFR 61.65(b)(1)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(1)(iii)]

Slip gauges: Minimize vinyl chloride emissions during loading or unloading operations by ducting any vinyl chloride discharged from the slip gauge through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(2)]

VOC, T<sub>total</sub>  $\geq 90\%$  DRE, using a vapor disposal system.

Which Months: All Year Statistical Basis: None specified  
 Equip with a vapor collection system consisting of, at a minimum, a vapor return line which returns all vapors displaced during loading to the VOC dispensing vessel or to a disposal system.

**SPECIFIC REQUIREMENTS**

AJ ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT\_0162 2VCLD-RC - VCM Railcar Loading Racks**

Prevent spills during the attachment and disconnection of filling lines or arms. Equip loading and vapor lines with fittings which close automatically when disconnected, or equip to permit residual VOC in the loading line to discharge into a collection system or disposal or recycling system.

Discontinue loading or unloading through the affected transfer lines when a leak is observed; do not resume loading or unloading until the observed leak is repaired.

VOC, Total monitored by visual, audible, and/or olfactory during loading or unloading, to detect leaks.

Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2107.D.1 and 2.  
 Determine compliance with LAC 33:III.2107.B using the methods in LAC 33:III.2107.E.1 through 5, as appropriate.

**EQT\_0163 2VCLD-SD - VCM Marine Loading Racks**

Loading and unloading lines: Vinyl chloride  $\leq 0.0038 \text{ m}^3$  (0.13 ft $^3$ ) at standard pressure, in all parts of each loading or unloading line that are to be opened to the atmosphere, after each loading or unloading operation and before opening a loading or unloading line to the atmosphere.

Subpart F. [40 CFR 61.65(b)(1)(i)]

Which Months: All Year Statistical Basis: None specified

Loading and unloading lines: Duct any vinyl chloride removed from a loading or unloading line in accordance with 40 CFR 61.65(b)(1)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(1)(ii)]

Slip gauges: Minimize vinyl chloride emissions during loading or unloading operations by ducting any vinyl chloride discharged from the ship gauge through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(2)]  
 Equip with a vapor collection system designed to collect the organic compounds vapors displaced from ships and/or barges during loading.

VOC, Total  $\geq 90\%$  reduction by weight by collecting and processing the vapors with a recovery and/or destruction system.

Which Months: All Year Statistical Basis: None specified

Barge loading of gasoline: Total Organic Compounds (TOC)  $\leq 70 \text{ mg/l}$  of VOC loaded (0.6 lb/1000 gal).

Which Months: All Year Statistical Basis: None specified

Barge loading of crude oil or other VOCs: Total Organic Compounds (TOC)  $\leq 30 \text{ mg/l}$  of VOC loaded (0.25 lb/1000 gal).

Which Months: All Year Statistical Basis: None specified

Ship loading of gasoline: Total Organic Compounds (TOC)  $\leq 30 \text{ mg/l}$  of VOC loaded (0.25 lb/1000 gal).

Which Months: All Year Statistical Basis: None specified

Ship loading of crude oil or other VOCs: Total Organic Compounds (TOC)  $\leq 12 \text{ mg/l}$  of VOC loaded (0.1 lb/1000 gal).

Which Months: All Year Statistical Basis: None specified  
 Load only into ships and/or barges equipped with vapor collection equipment that is compatible with the affected facility's vapor collection system.  
 Properly connect the vapor collection and disposal system to the ships and/or barges before any loading is done.

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063.V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0163 2VCLD-SD - VCM Marine Loading Racks**

- Comply with the requirements of LAC 33:III.2108 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2108 as a result of a revision of LAC 33:III.2108.
- Determine compliance with LAC 33:III.2108.C.3 using the methods in LAC 33:III.2108.E.1-5, as appropriate.
- Submit test results: Due to the Office of Environmental Assessment within 45 days of any testing done in accordance with LAC 33:III.2108.E. Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2108.F.2.a-e, as applicable.
- Loading gasoline, crude oil or other VOCs into ships or barges is prohibited unless all loading and vapor lines, arms and hoses are equipped with fittings which make vapor-tight connections and provide tight shut-off when disconnected.
- Prevent spills or leaks during attachment or disconnection of filling lines, hoses or arms. Do not spill liquids or handle in any other manner that would result in evaporation to the atmosphere.
- Maintain all equipment associated with the loading of gasoline, crude oil or other VOC into ships or barges to be leak-free, gas-tight and in good working order.

**EQT 0164 2EDLD-SD - EDC Railcar Loading Racks**

- Equip with a vapor collection system designed to collect the organic compounds vapors displaced from ships and/or barges during loading.
- VOC, Total  $\geq$  90% reduction by weight by collecting and processing the vapors with a recovery and/or destruction system.
- Which Months: All Year Statistical Basis: None specified
- Barge loading of gasoline: Total Organic Compounds (TOC)  $\leq$  70 mg/l of VOC loaded (0.6 lb/1000 gal).
- Which Months: All Year Statistical Basis: None specified
- Barge loading of crude oil or other VOCs: Total Organic Compounds (TOC)  $\leq$  30 mg/l of VOC loaded (0.25 lb/1000 gal).
- Which Months: All Year Statistical Basis: None specified
- Ship loading of gasoline: Total Organic Compounds (TOC)  $\leq$  30 mg/l of VOC loaded (0.25 lb/1000 gal).
- Which Months: All Year Statistical Basis: None specified
- Ship loading of crude oil or other VOCs: Total Organic Compounds (TOC)  $\leq$  12 mg/l of VOC loaded (0.1 lb/1000 gal).
- Which Months: All Year Statistical Basis: None specified
- Load only into ships and/or barges equipped with vapor collection equipment that is compatible with the affected facility's vapor collection system.
- Properly connect the vapor collection and disposal system to the ships and/or barges before any loading is done.
- Comply with the requirements of LAC 33:III.2108 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2108 as a result of a revision of LAC 33:III.2108.
- Determine compliance with LAC 33:III.2108.C.3 using the methods in LAC 33:III.2108.E.1-5, as appropriate.
- Submit test results: Due to the Office of Environmental Assessment within 45 days of any testing done in accordance with LAC 33:III.2108.E. Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2108.F.2.a-e, as applicable.

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0164 2EDLD-SD - EDC Railcar Loading Racks**

- 385 [LAC 33:III.2108.G.1] Loading gasoline, crude oil or other VOC's into ships or barges is prohibited unless all loading and vapor lines, arms and hoses are equipped with fittings which make vapor-tight connections and provide tight shut-off when disconnected.
- 386 [LAC 33:III.2108.G.2] Prevent spills or leaks during attachment or disconnection of filling lines, hoses or arms. Do not spill liquids or handle in any other manner that would result in evaporation to the atmosphere.
- 387 [LAC 33:III.2108.G.3] Maintain all equipment associated with the loading of gasoline, crude oil or other VOC into ships or barges to be leak-free, gas-tight and in good working order.

**EQT 0166 2MTK-501 - Feed Tank**

- 388 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 389 [40 CFR 61.343(a)(1)(i)(B)] Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 390 [40 CFR 61.343(a)(1)] Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 391 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- 392 [40 CFR 61.343(d)] Which Months: All Year Statistical Basis: None specified Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or basket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 393 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 394 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 395 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 396 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- 397 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063.V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0166 2MTK-501 - Feed Tank**

- 398 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 399 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 400 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group I status and is in operation. Subpart G.
- 401 [LAC 33:III.2103.A] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- 402 [LAC 33:III.2103.E.1] VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- 403 [LAC 33:III.2103.E.2] Which Months: All Year Statistical Basis: None specified VOC, Total  $\geq$  90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- 404 [LAC 33:III.2103.H.3] Which Months: All Year Statistical Basis: None specified Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 405 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT 0200 2C-6A - C/A Emergency Generator A**

- 406 [40 CFR 60.4205(a)] Comply with the emission standards in 40 CFR 94.8(a)(1). Subpart III. [40 CFR 60.4205(a)]
- 407 [40 CFR 60.4207(a)] Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]
- 408 [40 CFR 60.4209(a)] Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]
- 409 [40 CFR 60.4214(b)] Which Months: All Year Statistical Basis: None specified Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. Record the time of operation of the engine and the reason the engine was in operation during that time. Subpart III. [40 CFR 60.4214(b)]
- 410 [LAC 33:III.1101.B] Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or laning, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 411 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified Total suspended particulate  $\leq 0.6$  lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0200 2C-6A - C/A Emergency Generator A**

412 [LAC 33:III.509]

Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP and 0.0007 lb/HP-hr if the Engines > 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

**EQT 0201 2C-6B - C/A Emergency Generator B**

413 [40 CFR 60.4205(a)]

414 [40 CFR 60.4207(a)]

415 [40 CFR 60.4209(a)]

Comply with the emission standards in 40 CFR 94.8(a)(1). Subpart III. [40 CFR 60.4205(a)]

Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]

Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]

Which Months: All Year Statistical Basis: None specified

Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. Record the time of operation of the engine and the reason the engine was in operation during that time. Subpart III. [40 CFR 60.4214(b)]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, changing of an incinerator,

equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP and 0.0007 lb/HP-hr if the Engines > 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

**EQT 0202 2M-11A - VCM Emergency Generator A**

420 [40 CFR 60.4205(a)]

421 [40 CFR 60.4207(a)]

422 [40 CFR 60.4209(a)]

Comply with the emission standards in 40 CFR 94.8(a)(1). Subpart III. [40 CFR 60.4205(a)]

Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]

Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]

Which Months: All Year Statistical Basis: None specified

Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. Record the time of operation of the engine and the reason the engine was in operation during that time. Subpart III. [40 CFR 60.4214(b)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0202 2M-11A - VCM Emergency Generator A**

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP and 0.0007 lb/HP-hr if the Engines > 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

**EQT 0203 2M-11B - VCM Emergency Generator B**

Comply with the emission standards in 40 CFR 94.8(a)(1). Subpart III. [40 CFR 60.4205(a)]

Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]

Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]

Which Months: All Year Statistical Basis: None specified

Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. Record the time of operation of the engine and the reason the engine was in operation during that time. Subpart III. [40 CFR 60.4214(b)]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP and 0.0007 lb/HP-hr if the Engines > 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

**EQT 0204 2M-11C - VCM Emergency Generator C**

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063.V1  
 Air - Title V Regular Permit Minor Mod

**EQT 0204 2M-11C - VCM Emergency Generator C**

Comply with the emission standards in 40 CFR 94.8(a)(1). Subpart III. [40 CFR 60.4205(a)]  
 Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]  
 Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine.  
 Subpart III. [40 CFR 60.4209(a)]

Which Months: All Year Statistical Basis: None specified  
 Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. Record the time of operation of the engine and the reason the engine was in operation during that time. Subpart III. [40 CFR 60.4214(b)]  
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified  
 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.  
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified  
 Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

**EQT 0205 2M-11D - VCM Emergency Generator D**

Comply with the emission standards in 40 CFR 94.8(a)(1). Subpart III. [40 CFR 60.4205(a)]  
 Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]  
 Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine.  
 Subpart III. [40 CFR 60.4209(a)]

Which Months: All Year Statistical Basis: None specified  
 Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. Record the time of operation of the engine and the reason the engine was in operation during that time. Subpart III. [40 CFR 60.4214(b)]  
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-Y1  
**Air - Title V Regular Permit Minor Mod**

**EQT 0205 2M-11D - VCM Emergency Generator D**

- 449 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.  
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
 Which Months: All Year Statistical Basis: None Specified  
 Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines > 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

**EQT 0206 2M-11E - VCM Emergency Generator E**

- 452 [40 CFR 60.4205(a)] Comply with the emission standards in 40 CFR 94.8(a)(1). Subpart III. [40 CFR 60.4205(a)]  
 Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]  
 Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine.  
 Subpart III. [40 CFR 60.4209(a)]  
 Which Months: All Year Statistical Basis: None Specified  
 Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. Record the time of operation of the engine and the reason the engine was in operation during that time. Subpart III. [40 CFR 60.4214(b)]  
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: None Specified  
 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.  
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
 Which Months: All Year Statistical Basis: None Specified  
 Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP and 0.0067 lb/HP-hr if the Engines > 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

**FUG 0006 2U-4 - Fugitive Emission (Bio)**

- 460 [LAC 33:III.504] LAER is achieved by conducting an LDAR program as provided in 40 CFR 63 Subpart H to limit VOC emissions to 0.31 lb/hr.

**FUG 0008 2M-8 - VCM Unit Fugitive Emissions**

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-Y1

Air - Title V Regular Permit Minor Mod

**FUG 0008 2M-8 - VCM Unit Fugitive Emissions**

461 [40 CFR 61.65(a)]

462 [40 CFR 61.65(a)]

463 [40 CFR 61.65(b)(1)(ii)]

464 [40 CFR 61.65(b)(2)]

465 [40 CFR 61.65(b)(3)(i)]

466 [40 CFR 61.65(b)(3)(ii)]

467 [40 CFR 61.65(b)(3)(iii)]

468 [40 CFR 61.65(b)(3)(iv)]

469 [40 CFR 61.65(b)(3)(v)]

**Relief valves:** Do not discharge to the atmosphere from any relief valve on any equipment in vinyl chloride service, except for an emergency relief discharge, and except as provided in 40 CFR 61.65(d). Subpart F. [40 CFR 61.65(a)]

**Relief valves:** Submit report in writing within 10 days of any relief valve discharge, except for those subject to 40 CFR 61.65(d). Submit a report containing information on the source, nature and cause of the discharge, the date and time of the discharge, the approximate total vinyl chloride loss during the discharge, the method used for determining the vinyl chloride loss (the calculation of the vinyl chloride loss), the action that was taken to prevent the discharge, and measures adopted to prevent future discharges. Subpart F. [40 CFR 61.65(a)]

**Loading and unloading lines:** Duct any vinyl chloride removed from a loading or unloading line in accordance with 40 CFR 61.65(b)(1)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(1)(ii)]

**Slip gauges:** Minimize vinyl chloride emissions during loading or unloading operations by ducting any vinyl chloride discharged from the slip gauge through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(2)]

**Pumps (rotating):** Minimize vinyl chloride emissions from seals on all rotating pumps by installing sealless pumps, pumps with double mechanical seals, or equivalent as provided in 40 CFR 61.66. If double mechanical seals are used, minimize vinyl chloride emissions from the seals by maintaining the pressure between the two seals so that any leak that occurs is into the pump; by ducting any vinyl chloride between the two seals through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm; or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(3)(i)]

**Pumps (reciprocating):** Minimize vinyl chloride emissions by installing pumps by installing double outboard seals, or equivalent as provided in 40 CFR 61.66. If double outboard seals are used, minimize vinyl chloride emissions from the seals by maintaining the pressure between the two seals so that any leak that occurs is into the pump; by ducting any vinyl chloride between the two seals through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm; or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(3)(ii)]

**Compressors (rotating):** Minimize vinyl chloride emissions from seals on all rotating compressors by installing compressors with double mechanical seals, or equivalent as provided in 40 CFR 61.66. If double mechanical seals are used, minimize vinyl chloride emissions from the seals by maintaining the pressure between the two seals so that any leak that occurs is into the compressor; by ducting any vinyl chloride between the two seals through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm; or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(3)(iii)]

**Compressors (reciprocating):** Minimize vinyl chloride emissions by installing compressors by installing double outboard seals, or equivalent as provided in 40 CFR 61.66. If double outboard seals are used, minimize vinyl chloride emissions from the seals by maintaining the pressure between the two seals so that any leak that occurs is into the compressor; by ducting any vinyl chloride between the two seals through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm; or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(3)(iv)]

**Agitators:** Minimize vinyl chloride emissions from seals on all agitators by installing agitators with double mechanical seals, or equivalent as provided in 40 CFR 61.66. If double mechanical seals are used, minimize vinyl chloride emissions from the seals by maintaining the pressure between the two seals so that any leak that occurs is into the agitated vessel; by ducting any vinyl chloride between the two seals through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm; or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(3)(v)]

**SPECIFIC REQUIREMENTS**

**AI ID:** 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**FUG 0008 2M-8 - VCM Unit Fugitive Emissions**

- 470 [40 CFR 61.65(b)(4)] Relief valves (leaks): Comply with 40 CFR 61.242-4 of subpart V. Subpart F. [40 CFR 61.65(b)(4)]
- 471 [40 CFR 61.65(b)(5)] Duct all gases which are manually vented from equipment in vinyl chloride service through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(5)]
- 472 [40 CFR 61.65(b)(6)(ii)] Duct any vinyl chloride removed from the equipment in accordance with 40 CFR 61.65(b)(6)(ii) through a control system from which the concentration of vinyl chloride in the exhaust gas does not exceed 10 ppm (average for 3-hour period) or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(6)(ii)]
- 473 [40 CFR 61.65(b)(7)] Return unused portions of samples containing at least 10 percent by weight vinyl chloride to the process or destroy in a control device from which concentration of vinyl chloride in the exhaust gas does not exceed 10 ppm (average for 3-hour period) or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(7)]
- 474 [40 CFR 61.65(b)(8)(i)] Operate a reliable and accurate vinyl chloride monitoring system in accordance with the specifications in 40 CFR 61.65(b)(8)(i) for detection of major leaks and identification of the general area of the plant where a leak is located. Subpart F. [40 CFR 61.65(b)(8)(i)]
- 475 [40 CFR 61.65(b)(8)(ii)] Implement a formal leak detection and repair program consistent with 40 CFR 61 Subpart V, except as provided in 40 CFR 61.65(b)(8)(ii). Implement this program within 90 days of the effective date of 40 CFR 61 Subpart F. Subpart F. [40 CFR 61.65(b)(8)(ii)]
- 476 [40 CFR 61.65(b)(9)(ii)] Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)] Incorporate the requirements in 40 CFR 61.65(b)(1), (b)(2), (b)(5), (b)(6), (b)(7), and (b)(8) into a standard operating procedure, and make available upon request for inspection by DEQ. Include provisions for measuring the vinyl chloride in equipment 4.75 m<sup>3</sup> (1255 gal) in volume for which an emission limit is prescribed in 40 CFR 61.65(b)(6)(i) after opening the equipment and using Method 106, a portable hydrocarbon detector, or an alternative method. Subpart F. [40 CFR 61.65(c)] Test emissions from the source within 90 days of the effective date of 40 CFR 61 Subpart F. Conduct test as specified in 40 CFR 61.67(c) through (g). Subpart F. [40 CFR 61.67(c)] Test emissions from the source within 90 days of startup. Conduct test as specified in 40 CFR 61.67(c) through (g). Subpart F. [40 CFR 61.67(a)(2)] Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
- 477 [40 CFR 61.65(c)] Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]
- 478 [40 CFR 61.67(a)(1)] Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
- 479 [40 CFR 61.67(a)(2)] Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
- 480 [40 CFR 61.67(b)]
- 481 [40 CFR 61.67(e)]
- 482 [40 CFR 61.67(h)]
- 483 [40 CFR 61.68(c)]

**SPECIFIC REQUIREMENTS**

**AI ID:** 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**FUG 0008 2M-8 - VCM Unit Fugitive Emissions**

- 484 [40 CFR 61.68(d)] Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
- 485 [40 CFR 61.68(f)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- 486 [40 CFR 61.68] Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a), and 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.
- 487 [40 CFR 61.71(a)] Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
- 488 [40 CFR 63.162(c)] Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63.162(c)
- 489 [40 CFR 63.162(f)] Subpart H. [40 CFR 63.162(f)] Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 490 [40 CFR 63.163(b)(1)] Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase I); 5,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]
- 491 [40 CFR 63.163(b)(3)] Which Months: All Year Statistical Basis: None specified Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]
- 492 [40 CFR 63.163(c)] Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**FUG 0008 2M-8 - VCM Unit Fugitive Emissions**

- Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
- Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
- Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure, or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-loop system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(1)]
- Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(2)]
- Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(3)]
- Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(4)]
- Which Months: All Year Statistical Basis: None specified
- Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(i)]
- Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(ii)]
- Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)]
- Which Months: All Year Statistical Basis: None specified
- Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each pump as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.163(b)(3) and (e)(4), and the daily requirement of 40 CFR 63.163(e)(5). Subpart H. [40 CFR 63.163(h)]
- Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**FUG 0008 2M-8 - VCM Unit Fugitive Emissions**

- 503 [40 CFR 63.163(j)(1)] Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(1)]
- 504 [40 CFR 63.163(j)(2)] Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(2)]
- Which Months: All Year Statistical Basis: None specified
- Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]
- Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
- Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]
- Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
- Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
- Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
- Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 63.164(a) through (h). Subpart H. [40 CFR 63.164(i)(2)]
- Which Months: All Year Statistical Basis: None specified
- Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H.
- Which Months: All Year Statistical Basis: None specified
- Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
- Which Months: All Year Statistical Basis: None specified
- Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]

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515 [40 CFR 63.165(b)(2)]

Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]

516 [40 CFR 63.165(d)(2)]

Which Months: All Year Statistical Basis: None specified  
 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.165(a) and (b). Subpart H. [40 CFR 63.165(d)(2)]

517 [40 CFR 63.166]

Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H.

518 [40 CFR 63.167]

Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H.

519 [40 CFR 63.168(c)]

Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]

520 [40 CFR 63.168(c)]

Which Months: All Year Statistical Basis: None specified  
 Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]

521 [40 CFR 63.168(d)(1)]

Which Months: All Year Statistical Basis: None specified  
 Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]

522 [40 CFR 63.168(d)(2)]

Which Months: All Year Statistical Basis: None specified  
 Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]

523 [40 CFR 63.168(e)(1)]

Which Months: All Year Statistical Basis: None specified  
 Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]

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- 525 [40 CFR 63.168(f)] Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
- 526 [40 CFR 63.168(h)(1)] Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(1)]
- 527 [40 CFR 63.168(h)(2)] Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(2)]
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(1)]
- 528 [40 CFR 63.168(i)(1)] Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(1)]
- Which Months: All Year Statistical Basis: None specified
- Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]
- Which Months: All Year Statistical Basis: None specified
- Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]
- Closed-vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(h)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(h)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified

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- 534 [40 CFR 63.172(f)(2)(i)] Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(i)]
- Which Months: All Year Statistical Basis: None specified
- 535 [40 CFR 63.172(f)(2)(ii)] Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 536 [40 CFR 63.172(h)] Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]
- Closed-vent system (unsafe-to-inspect): Demonstrate that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential dangers as a consequence of complying with 40 CFR 63.172(f)(1) or (f)(2). Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(1)]
- 537 [40 CFR 63.172(k)(1)] Closed-vent system (unsafe-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as practicable during safe-to-inspect times, but not more frequently than annually. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(2)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent system (difficult-to-inspect): Demonstrate that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(1)]
- 538 [40 CFR 63.172(k)(2)] Closed-vent system (difficult-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every five years. Maintain a written plan that requires inspection of the equipment at least once every five years. Comply with this requirement instead of the requirements in 40 CFR 63.172(l)(1) and (l)(2). Subpart H. [40 CFR 63.172(l)(2)]
- Which Months: All Year Statistical Basis: None specified
- 539 [40 CFR 63.172(l)(1)] Ensure that the closed-vent system or control device is operating whenever organic HAP emissions are vented to the closed-vent system or control device. Subpart H. [40 CFR 63.172(m)]
- 540 [40 CFR 63.172(l)(2)] Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]
- Which Months: All Year Statistical Basis: None specified
- 541 [40 CFR 63.172(m)] Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]
- 542 [40 CFR 63.173(a)] Which Months: All Year Statistical Basis: None specified
- 543 [40 CFR 63.173(b)]

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- Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172, or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(1)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(2)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(3)]
- Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(4)]
- Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)(i)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)]
- Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)]
- Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service or light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.173(b)(1) and (d)(4), and the daily requirements of 40 CFR 63.173(d)(5). Subpart H. [40 CFR 63.173(g)]
- Which Months: All Year Statistical Basis: None specified

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- 553 [40 CFR 63.173(h)(1)] Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(1)]
- 554 [40 CFR 63.173(h)(3)] Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(3)]
- 555 [40 CFR 63.173(j)(1)] Which Months: All Year Statistical Basis: None specified Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(1)]
- 556 [40 CFR 63.173(j)(2)] Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(2)]
- 557 [40 CFR 63.174(b)(2)] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within the first 12 months after initial startup or by no later than 12 months after the date of promulgation of a specific subpart that references 40 CFR 63 Subpart H, whichever is later, except as specified in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(2)]
- 558 [40 CFR 63.174(b)(3)(i)] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]
- 559 [40 CFR 63.174(b)(3)(ii)] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]
- 560 [40 CFR 63.174(c)(1)(i)] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(i)]
- 561 [40 CFR 63.174(d)] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.174(a) and 63.174(g). Subpart H. [40 CFR 63.174(d)]
- 562 [40 CFR 63.174(f)(1)] Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(1)]

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Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(h)(2)]

Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Comply with this requirement instead of the requirements in 40 CFR 63.174(a), (d), and (e). Subpart H. [40 CFR 63.174(g)]

Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Comply with this requirement instead of the monitoring requirements of 40 CFR 63.174(a) and (c) and from the recordkeeping and reporting requirements of 40 CFR 63.181 and 63.182. Subpart H. [40 CFR 63.174(h)(2)]

Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]

Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H.

Submit Initial Notification: Due within 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]

Submit application: Due as soon as practicable before the construction or reconstruction is planned to commence (but it need not be sooner than 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H). Submit application for approval of construction or reconstruction required by 40 CFR 63.5(d) in lieu of the Initial Notification. Subpart H. [40 CFR 63.182(b)]

Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]

Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]

LAER is achieved by conducting an LDAR program as provided in 40 CFR 63 Subpart H to limit VOC emissions to 2.50 lb/hr.

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Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

**SPECIFIC REQUIREMENTS**

AJ ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER2010002  
 Permit Number: 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**FUG 0009 2M-9 - VCM Unit Fugitive Emissions - 2**

- Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
- Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
- Which Months: All Year Statistical Basis: None specified
- Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H.
- Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]
- Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H.
- Submit application: Due as soon as practicable before the construction or reconstruction is planned to commence (but it need not be sooner than 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H). Submit application for approval of construction or reconstruction required by 40 CFR 63.5(q) in lieu of the Initial Notification. Subpart H. [40 CFR 63.182(b)]
- Submit Initial Notification: Due within 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]

**SPECIFIC REQUIREMENTS**

AJ ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**FUG\_0009 2M-9 - VCM Unit Fugitive Emissions - 2**

- 592 [40 CFR 63.182(c)]  
Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 593 [40 CFR 63.182(d)]  
Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- 594 [LAC 33:III.504]  
LAER is achieved by conducting an LDAR program as provided in 40 CFR 63 Subpart H to limit VOC emissions to 3.42 lb/hr.

**FUG\_0010 2M-10 - VCM Unit Fugitive Emissions - 3**

- 595 [40 CFR 63.102(a)]  
Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 596 [40 CFR 63.103(b)(1)]  
Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 597 [40 CFR 63.103(b)(2)]  
Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 598 [40 CFR 63.103(b)(3)]  
Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 599 [40 CFR 63.103(c)(1)]  
Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 600 [40 CFR 63.103(c)(2)]  
Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 601 [40 CFR 63.103(c)]  
Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 602 [40 CFR 63.162(c)]  
Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
- 603 [40 CFR 63.162(f)]  
Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 604 [40 CFR 63.165(a)]  
Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
- 605 [40 CFR 63.172(h)]  
Which Months: All Year Statistical Basis: None specified  
Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]
- 606 [40 CFR 63.180]  
Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H.

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER2010002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**FUG 0010 2M-10 - VCM Unit Fugitive Emissions - 3**

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H.

Submit Initial Notification: Due within 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]

Submit application: Due as soon as practicable before the construction or reconstruction is planned to commence (but it need not be sooner than 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H). Submit application for approval of construction or reconstruction required by 40 CFR 63.5(d) in lieu of the Initial Notification. Subpart H. [40 CFR 63.182(b)]

Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]

Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]

LAEF is achieved by conducting an LDAR program as provided in 40 CFR 63 Subpart H to limit VOC emissions to 0.39 lb/hr.

**GRP 0011 2C-6 - C/A Emergency Generators**

Group Members: EQT 0200 EQT 0201

Comply with the emission standards in 40 CFR 94.8(a)(1). Subpart III. [40 CFR 60.4205(a)]

Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]

Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]

Which Months: All Year Statistical Basis: None specified Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. Record the time of operation of the engine and the reason the engine was in operation during that time. Subpart III. [40 CFR 60.4214(b)]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP and 0.0007 lb/HP-hr if the Engines > 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

**GRP 0012 2M-11 - VCM Emergency Generators**

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**GRP 0012 2M-11 - VCM Emergency Generators**

Group Members: EQT 0202EQT 0203EQT 0204EQT 0205EQT 0206

- 620 [40 CFR 60.4205(a)] Comply with the emission standards in 40 CFR 94.8(a)(1). Subpart III. [40 CFR 60.4205(a)]  
 Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]  
 Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine.  
 Subpart III. [40 CFR 60.4209(a)]
- 621 [40 CFR 60.4207(a)] Which Months: All Year Statistical Basis: None specified  
 Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. Record the time of operation of the engine and the reason the engine was in operation during that time. Subpart III. [40 CFR 60.4214(b)]
- 622 [40 CFR 60.4209(a)] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 623 [40 CFR 60.4214(b)] Which Months: All Year Statistical Basis: None specified  
 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.  
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 624 [LAC 33:III.1101.B] Which Months: All Year Statistical Basis: None specified  
 Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines > 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.
- 625 [LAC 33:III.1305] Which Months: All Year Statistical Basis: None specified  
 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 626 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 627 [LAC 33:III.509] Which Months: All Year Statistical Basis: None specified  
 Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines > 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

**RLP 0010 2MCL-301 - Cracking Furnace Initial Quench Process Vents**

- 628 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 629 [40 CFR 63.103(b)(1)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 630 [40 CFR 63.103(b)(2)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 631 [40 CFR 63.103(b)(3)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 632 [40 CFR 63.103(c)(1)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2X) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AJ ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER2010002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0010 2MCL-301 - Cracking Furnace Initial Quench Process Vents**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure.
- Subpart F
- Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
- Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AJ ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP\_0010 2MCL-301 - Cracking Furnace Initial Quench Process Vents**

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified

VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.

Which Months: All Year Statistical Basis: None specified

Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.1.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115.J.2.c as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP\_0011 2MCL-302 - Cracking Furnace Initial Quench Process Vents**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-Y1

Air - Title V Regular Permit Minor Mod

**RLP 0011 2MCL-302 - Cracking Furnace Initial Quench Process Vents**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. [If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33.III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Subpart G. [40 CFR 63.117(a)]
- Which Months: All Year Statistical Basis: None specified Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33.III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Subpart G. [40 CFR 63.117(a)]
- 660 [40 CFR 63.103(c)]
- 661 [40 CFR 63.104(d)]
- 662 [40 CFR 63.104(f)]
- 663 [40 CFR 63.105(d)]
- 664 [40 CFR 63.105]
- 665 [40 CFR 63.113(a)(2)]
- 666 [40 CFR 63.113(i)(1)(ii)]
- 667 [40 CFR 63.113(i)(2)]
- 668 [40 CFR 63.114(d)(2)]
- 669 [40 CFR 63.117(a)]
- 670 [LAC 33.III.2115.B]
- 671 [LAC 33.III.2115.C]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0011 2MCL-302 - Cracking Furnace Initial Quench Process Vents**

- Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified
- VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.
- Which Months: All Year Statistical Basis: None specified
- Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
- Which Months: All Year Statistical Basis: None specified
- Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2 through e.
- Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0012 2MCL-303 - Cracking Furnace Initial Quench Process Vents**

- Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AJ ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0012 2MCL-303 - Cracking Furnace Initial Quench Process Vents**

Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]

Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]

Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.

Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]

Which Months: All Year Statistical Basis: None specified

Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]

Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]

Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1., or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified

Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1., or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified

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**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0012 2MCL-303 - Cracking Furnace Initial Quench Process Vents**

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600\text{ F}$  (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified

VOC, Total  $<= 0.12\text{ kg}/10000\text{ kg}$  of product from the material recovery section.

Which Months: All Year Statistical Basis: None specified

Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.J.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable, but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0013 2MCL-304 - Cracking Furnace Initial Quench Process Vents**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]  
 Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]  
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-Y1  
**Air - Title V Regular Permit Minor Mod**

**RLP 0013 2MCL-304 - Cracking Furnace Initial Quench Process Vents**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP  $\geq$  98 % reduction by weight, or  $<= 20$  ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2.115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified
- Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2.115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-Y1  
 Air - Title V Regular Permit Minor Mod

**RLP 0013 2MCL-304 - Cracking Furnace Initial Quench Process Vents**

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified  
 VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.

Which Months: All Year Statistical Basis: None specified  
 Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None specified  
 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.1.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.  
 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0014 2MRE-203 - OHC Reactor Initial Quench Process Vents**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]  
 Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]  
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

**AJ ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant**  
**Activity Number: PER20100002**  
**Permit Number: 3063-V1**  
**Air - Title V Regular Permit Minor Mod**

**RLP 0014 2MRE-203 - OHC Reactor Initial Quench Process Vents**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintainence wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintainence wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP  $\geq$  98 % reduction by weight, or  $<= 20$  ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(xi)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(g)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified
- Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0014 2MRE-203 - OHC Reactor Initial Quench Process Vents**

Norhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified  
 VOC, Total  $\leq 0.12$  kg/10000 kg of product from the material recovery section.

Which Months: All Year Statistical Basis: None specified  
 Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.5.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None specified  
 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through S, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.  
 Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0015 2MRE-204 - OHC Reactor Initial Quench Process Vents**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]  
 Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]  
 Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0015 2MRE-204 - OHC Reactor Initial Quench Process Vents**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv), as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33.III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33.III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**RLP 0015 2MRE-204 - OHC Reactor Initial Quench Process Vents**

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified

VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.

Which Months: All Year Statistical Basis: None specified

Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2. a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0016 2MRE-205 - OHC Reactor Initial Quench Process Vents**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]  
 Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]  
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-Y1  
**Air - Title V Regular Permit Minor Mod**

**RLP 0016 2MRE-205 - OHC Reactor Initial Quench Process Vents**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33.III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33.III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Subpart G. [40 CFR 63.114(d)(2)]
- 801 [LAC 33.III.2115.C]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER2010002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP\_0016 2MRE-205 - OHC Reactor Initial Quench Process Vents**

- 802 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- 803 [LAC 33:III.2115.E] Which Months: All Year Statistical Basis: None specified VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.
- 804 [LAC 33:III.2115.F] Which Months: All Year Statistical Basis: None specified Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
- 805 [LAC 33:III.2115.I] Which Months: All Year Statistical Basis: None specified Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I through 5, as appropriate.
- 806 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 807 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 808 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 809 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP\_0017 2MRE-101 - Vent from 1st Direct Chlorination Reactor**

- 810 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 811 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 812 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 813 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 814 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 815 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0017 2MRE-101 - Vent from 1st Direct Chlorination Reactor**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 31:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 31:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Subpart G. [40 CFR 63.117(a)]
- Which Months: All Year Statistical Basis: None specified
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 31:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Subpart G. [40 CFR 63.117(a)]
- Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0017 2MRE-101 - Vent from 1st Direct Chlorination Reactor**

828 [LAC 33:III.2115.D]

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

829 [LAC 33:III.2115.E]

Which Months: All Year Statistical Basis: None specified VOC, Total  $\leq 0.12$  kg/1,000 kg of product from the material recovery section.

830 [LAC 33:III.2115.F]

Which Months: All Year Statistical Basis: None specified Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

831 [LAC 33:III.2115.I]

Which Months: All Year Statistical Basis: None specified Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.

832 [LAC 33:III.2115.I.1]

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

833 [LAC 33:III.2115.I.2]

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

834 [LAC 33:III.2115.J]

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

835 [LAC 33:III.2115.K]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0018 2MRE-102 - Vent from 2nd Direct Chlorination Reactor**

836 [40 CFR 63.102(a)]

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

837 [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

838 [40 CFR 63.103(b)(2)]

Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

839 [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

840 [40 CFR 63.103(c)(1)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2X) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**RLP 0018 2MRE-102 - Vent from 2nd Direct Chlorination Reactor**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified
- Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0018 2MRE-102 - Vent from 2nd Direct Chlorination Reactor**

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified  
 VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.

Which Months: All Year Statistical Basis: None specified  
 Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None specified  
 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.1.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.  
 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0019 2MTK-105 - Vent from Direct Chlorination product separator**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0019 2MTK-105 - Vent from Direct Chlorination product separator**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1., or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1., or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-Y1  
 Air - Title V Regular Permit Minor Mod

**RLP 0019 2MTK-105 - Vent from Direct Chlorination product separator**

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified

VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.

Which Months: All Year Statistical Basis: None specified

Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.J.1 through S, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0026 2MCL-401 - EDC Purification Drying Column Vent**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0026 2MCL-401 - EDC Purification Drying Column Vent**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(f)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(f)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33.III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33.III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

**RLP 0026 2MCL-401 - EDC Purification Drying Column Vent**

906 [LAC 33:III.2115.D]

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified

VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.

Which Months: All Year Statistical Basis: None specified

Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0027 2MCL-402 - EDC Purification Lights Column Vent**

914 [40 CFR 63.102(a)]

915 [40 CFR 63.103(b)(1)]

916 [40 CFR 63.103(b)(2)]

917 [40 CFR 63.103(b)(3)]

918 [40 CFR 63.103(c)(1)]

919 [40 CFR 63.103(c)(2)]

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**RLP 0027 2MCL-402 - EDC Purification Lights Column Vent**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
- Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified
- Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-Y1  
 Air - Title V Regular Permit Minor Mod

**RLP 0027 2MCL-402 - EDC Purification Lights Column Vent**

932 [LAC 33:III.2115.D]

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified

VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.

Which Months: All Year Statistical Basis: None specified

Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115.J.2.a through e. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0028 2MCL-403 - EDC Purification Hiboll Column Vent**

940 [40 CFR 63.102(a)]

941 [40 CFR 63.103(b)(1)]

942 [40 CFR 63.103(b)(2)]

943 [40 CFR 63.103(b)(3)]

944 [40 CFR 63.103(c)(1)]

945 [40 CFR 63.103(c)(2)]

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]  
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0028 2MCL-403 - EDC Purification Hiboll Column Vent**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv), as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.105(d).
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None Specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33.III.2115.J.1., or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None Specified
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33.III.2115.J.1., or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None Specified

**SPECIFIC REQUIREMENTS**

**AJ ID:** 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**RLP\_0028 2MCL-403 - EDC Purification Hiball Column Vent**

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified  
VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.

Which Months: All Year Statistical Basis: None specified  
Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None specified  
Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.  
Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.  
Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP\_0029 2MCL-404 - EDC Purification Vacuum Column Vent**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]  
Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]  
Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS****AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant****Activity Number: PER20100002****Permit Number: 3063-V1****Air - Title V Regular Permit Minor Mod****RLP 0029 2MCL-404 - EDC Purification Vacuum Column Vent**

Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]

Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv), as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]

Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and plugging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.

Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]

Which Months: All Year Statistical Basis: None specified

Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(f)(1)(ii)]

Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(f)(2)]

Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.I.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Subpart G. [40 CFR 63.117(a)]

Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.I.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Subpart G. [40 CFR 63.117(a)]

Which Months: All Year Statistical Basis: None specified

Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.I.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Subpart G. [40 CFR 63.117(a)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**RLP 0029 2MCL-404 - EDC Purification Vacuum Column Vent**

984 [LAC 33:III.2115.D]

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

985 [LAC 33:III.2115.E]

Which Months: All Year Statistical Basis: None specified

VOC, Total  $\leq 0.12$  kg/1,000 kg of product from the material recovery section.

986 [LAC 33:III.2115.F]

Which Months: All Year Statistical Basis: None specified

Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

987 [LAC 33:III.2115.I]

Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.

988 [LAC 33:III.2115.I.1]

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115.K.1 through K.3 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0030 2MCL-405 - EDC Purification Clean-up Column Vent**

992 [40 CFR 63.102(a)]

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AJ ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER2010002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0030 2MCL-405 - EDC Purification Clean-up Column Vent**

- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 31:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 31:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified
- 1003 [40 CFR 63.113(a)(2)]
- 1004 [40 CFR 63.113(i)(1)(ii)]
- 1005 [40 CFR 63.113(i)(2)]
- 1006 [40 CFR 63.114(d)(2)]
- 1007 [40 CFR 63.117(a)]
- 1008 [LAC 33:III.2115.B]
- 1009 [LAC 33:III.2115.C]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0030 2MCL-405 - EDC Purification Clean-up Column Vent**

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified

VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.

Which Months: All Year Statistical Basis: None specified

Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.1.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0031 2MCL-406 - EDC Purification 2nd Hiboi Column Vent**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER2010002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0031 2MCL-406 - EDC Purification 2nd Hiboll Column Vent**

- 1024 [40 CFR 63.103(c)]  
 Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure.
- Subpart F.  
 Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).  
 Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified  
 Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G.  
 Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 3:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified  
 Nonhalogenated hydrocarbon burning: Temperature  $\geq$  1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 3:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0031 2MCL-406 - EDC Purification 2nd Hboll Column Vent**

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None specified

VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.

Which Months: All Year Statistical Basis: None specified

Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0032 2MCL-631 - 1st Misc. Wastewater stripper Vent**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP\_0032 2MCL-631 - 1st Misc. Wastewater stripper Vent**

Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]

Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.105(d). Subpart F. [40 CFR 63.105(d)]

Maintenance wastewater: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shut-down, and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(e)]

Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F. [40 CFR 63.105(e)]

Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ. Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP\_0033 2MCL-632 - 2nd Misc. Wastewater stripper Vent**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

**SPECIFIC REQUIREMENTS**

AJ ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP\_0033 2MCL-632 - 2nd Misc. Wastewater stripper Vent**

- Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shut-down, and malfunction plan required under 40 CFR 63.6(e)(3).
- Subpart F. [40 CFR 63.105(e)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure.
- Subpart F.
- Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
- Which Months: All Year Statistical Basis: None specified
- Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

**RLP 0033 2MCL-632 - 2nd Misc. Wastewater stripper Vent**

1078 [LAC 33:III.2115.J]

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

1079 [LAC 33:III.2115.K]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0034 2MCL-633 - 1st Acid Wastewater stripper Vent**

1080 [40 CFR 63.102(a)]

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]

Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]

Maintenance wastewater: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shut-down, and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(e)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-Y1  
 Air - Title V Regular Permit Minor Mod

**RLP 0034 2MCL-633 - 1st Acid Wastewater stripper Vent**

1091 [40 CFR 63.105]

Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure.

1092 [LAC 33:III.2115.F]

Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None Specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.1.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0035 2MCL-634 - 2nd Acid Wastewater stripper Vent**

1098 [40 CFR 63.102(a)]

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Air - Title V Regular Permit Minor Mod

**RLP 0035 2MCL-634 - 2nd Acid Wastewater stripper Vent**

Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]

Maintenance wastewater: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shut-down, and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(e)]

Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.

Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ. Which Months: All Year Statistical Basis: None Specified Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0036 2MCL-204 - OHC Stripper Process Vents**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0036 2MCL-204 - OHC Train CO2 Stripper Process Vents**

- Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(h)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whenever is less stringent, as determined using the methods in 40 CFR 63.116(c).
- Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

**SPECIFIC REQUIREMENTS**

**AI ID:** 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**RLP 0036 2MCL-204 - OHC Train CO2 Stripper Process Vents**

1132 [LAC 33:III.2115.B]

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

1133 [LAC 33:III.2115.C]

Which Months: All Year Statistical Basis: None specified  
 Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

1134 [LAC 33:III.2115.D]

Which Months: All Year Statistical Basis: None specified  
 Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

1135 [LAC 33:III.2115.E]

Which Months: All Year Statistical Basis: None specified  
 Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

1136 [LAC 33:III.2115.F]

Which Months: All Year Statistical Basis: None specified  
 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.J.1 through 5, as appropriate.

1137 [LAC 33:III.2115.I]

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.  
 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

1138 [LAC 33:III.2115.J.1]

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115.J.2.a through e.  
 1139 [LAC 33:III.2115.J.2]

1140 [LAC 33:III.2115.J.1]

33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

1141 [LAC 33:III.2115.K.]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0037 2MCL-205 - OHC Train CO2 Stripper Process Vents**

1142 [40 CFR 63.102(a)]

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

1143 [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0037 2MCL-205 - OHC Train CO2 Stripper Process Vents**

- Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(e)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(e)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP  $\geq$  98 % reduction by weight, or  $\leq$  20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
- Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G.
- Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(g)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0037 2MCL-205 - OHC Train CO<sub>2</sub> Stripper Process Vents**

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600\text{ F}$  (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None Specified

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600\text{ F}$  (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None Specified

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600\text{ F}$  (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None Specified

Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600\text{ F}$  (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

Which Months: All Year Statistical Basis: None Specified

VOC, Total  $\leq 0.12\text{ kg}/1000\text{ kg}$  of product from the material recovery section.

Which Months: All Year Statistical Basis: None Specified

Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.

Which Months: All Year Statistical Basis: None Specified

Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.J.1 through 5, as appropriate.

Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**RLP 0038 2MRE-103 - DC Reactor Process Vent**

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

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**SPECIFIC REQUIREMENTS**

**AI ID:** 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
**Activity Number:** PER20100002  
**Permit Number:** 3063-V1  
**Air - Title V Regular Permit Minor Mod**

**RLP 0038 2MRE-103 - DC Reactor Process Vent**

- Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Organic HAP  $\geq$  98 % reduction by weight, or  $<= 20$  ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
- Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G.
- Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

**SPECIFIC REQUIREMENTS**

AI ID: **126578** - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: **PER20100002**  
 Permit Number: **3063-V1**  
 Air - Title V Regular Permit Minor Mod

**RLP 0038 2MRE-103 - DC Reactor Process Vent**

- 1184 [LAC 33:III.2115.B]  
 Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.I.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- 1185 [LAC 33:III.2115.C]  
 Which Months: All Year Statistical Basis: None Specified  
 Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.I.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- 1186 [LAC 33:III.2115.D]  
 Which Months: All Year Statistical Basis: None Specified  
 Nonhalogenated hydrocarbon burning: Temperature  $\geq 1600$  F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.I.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- 1187 [LAC 33:III.2115.E]  
 Which Months: All Year Statistical Basis: None Specified  
 VOC, Total  $\leq 0.12$  kg/1000 kg of product from the material recovery section.
- 1188 [LAC 33:III.2115.F]  
 Which Months: All Year Statistical Basis: None Specified  
 Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
- 1189 [LAC 33:III.2115.I]  
 Which Months: All Year Statistical Basis: None Specified  
 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 1190 [LAC 33:III.2115.J]  
 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 1191 [LAC 33:III.2115.J.2]  
 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 1192 [LAC 33:III.2115.J]  
 Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 1193 [LAC 33:III.2115.K]  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- RLP 0044 2MCL-635 - Wastewater stripper Vent**
- 1194 [40 CFR 63.102(a)]  
 Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]  
 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 1195 [40 CFR 63.103(b)(1)]  
 Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 1196 [40 CFR 63.103(b)(2)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-V1  
 Air - Title V Regular Permit Minor Mod

**RLP 0044 2MCL-635 - Wastewater stripper Vent**

- Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- Maintenance wastewater: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shut-down, and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(e)]
- Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- Halogenated hydrocarbons, total  $\geq 95\%$  removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ. Which Months: All Year Statistical Basis: None specified
- Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant  
 Activity Number: PER20100002  
 Permit Number: 3063-y1  
 Air - Title V Regular Permit Minor Mod

**RLP 0044 2MCL-635 - Wastewater stripper Vent**

1211 [LAC 33:III.2115.K]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

**UNF 0001 Entire Facility - Entire Facility**

1212 [40 CFR 60.]

1213 [40 CFR 61.342(b)]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

Comply with the requirements of 40 CFR 61.342(c) through (h) no later than 90 days following the effective date, unless a waiver of compliance has been obtained under 40 CFR 61.11, or by the initial startup for a new source with an initial startup after the effective date. Subpart FF. [40 CFR 61.342(b)]

Waste streams containing benzene: Remove or destroy the benzene contained in the waste using a treatment process or wastewater treatment system that complies with the standards specified in 40 CFR 61.348. Subpart FF. [40 CFR 61.342(c)(1)(i)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

Submit report: Due annually, beginning on the date that equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit updates to the information listed in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(d)(2)]

Relief valves: Submit report in writing within 10 days of any relief valve discharge, except for those subject to 40 CFR 61.65(d). Submit a report containing information on the source, nature and cause of the discharge, the date and time of the discharge, the approximate total vinyl chloride loss during the discharge, the method used for determining the vinyl chloride loss (the calculation of the vinyl chloride loss), the action that was taken to prevent the discharge, and measures adopted to prevent future discharges. Subpart F. [40 CFR 61.65(a)]

Relief valves: Do not discharge to the atmosphere from any relief valve on any equipment in vinyl chloride service, except for an emergency relief discharge, and except as provided in 40 CFR 61.65(d). Subpart F. [40 CFR 61.65(a)]

Duct all gases which are manually vented from equipment in vinyl chloride service through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(5)]

Vinyl chloride <= 2 percent of the equipment's containment volume, or vinyl chloride <= 0.0950 cubic meters (25 gallons), whichever is larger, at standard temperature and pressure, before opening any equipment for any reason. Subpart F. [40 CFR 61.65(b)(6)(i)]

Which Months: All Year Statistical Basis: None specified

Duct any vinyl chloride removed from the equipment in accordance with 40 CFR 61.65(b)(6)(i) through a control system from which the concentration of vinyl chloride in the exhaust gas does not exceed 10 ppm (average for 3-hour period) or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(6)(i)]

Operate a reliable and accurate vinyl chloride monitoring system in accordance with the specifications in 40 CFR 61.65(b)(8)(i) for detection of major leaks and identification of the general area of the plant where a leak is located. Subpart F. [40 CFR 61.65(b)(8)(i)]

**SPECIFIC REQUIREMENTS**

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20100002

Permit Number: 3063-V1

Alt - Title V Regular Permit Minor Mod

**UNF 0001 Entire Facility - Entire Facility**

- 1223 [40 CFR 61.65(b)(9)(i)] Inprocess wastewater (vinyl chloride > 10ppm): Vinyl chloride <= 10 ppmw before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]
- Which Months: All Year Statistical Basis: None specified
- Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
- Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]
- Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that the nearest public receptor is beyond the distance to a toxic or flammable endpoint defined in 68.22. [40 CFR 68.12(b)(1)]
- Ensure that response actions have been coordinated with local emergency planning and response agencies. [40 CFR 68.12(b)(3)]
- Include in the RMP the certification specified in 68.12(b)(4). [40 CFR 68.12(b)(4)]
- Submit Risk Management Plan (RMP). Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999.
- Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g).
- Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13).
- Submit in the RMP information one worst-case release scenario for each Program 1 process. Include the data specified in 68.165(b)(1) through (13).
- Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a).
- Provide in the RMP the emergency response information listed in 68.180(a) through (c).

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- 1239 [40 CFR 68.190(c)] Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 1240 [40 CFR 68.200] Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided.
- 1241 [40 CFR 68.22] Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences.
- 1242 [40 CFR 68.25] Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h).
- 1243 [40 CFR 68.28] Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e).
- 1244 [40 CFR 68.30] Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 1245 [40 CFR 68.33] List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 1246 [40 CFR 68.36(b)] Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 1247 [40 CFR 68.36] Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more.
- 1248 [40 CFR 68.39] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses.
- 1249 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.
- 1250 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 1251 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 1252 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 1253 [LAC 33:III.2201.D.9] Do not fire an affected point source with Number 6 Fuel Oil or perform testing of emergency and training combustion units without prior approval of DEQ on a day that is designated as an Ozone Action Day by DEQ.
- 1254 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 1255 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.

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- 1256 [LAC 33:III.501.C.6] Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).
- 1257 [LAC 33:III.501.C.6] Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HR VOC), which include 1,3-Butadiene, Butene, cis-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only).
- 1258 [LAC 33:III.504] Comply with the requirements of the Nonattainment New Source Review Program. This permit includes provisions of the Nonattainment New Source Review Procedures (NNSR) from LAC 33:III.504.
- 1259 [LAC 33:III.509] Comply with the requirements of PSD-LA-731. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-731.
- 1260 [LAC 33:III.5107.A.1] Submit initial annual emissions report (TEDI) to DEQ within 180 days of December 20, 1991. Identify the quantity of emissions of toxic air pollutants listed in Table 51.1 for the calendar year 1991.
- 1261 [LAC 33:III.5107.A.2] Submit Annual Emissions Report (TEDI). Due annually, by the 1st of July, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 1262 [LAC 33:III.5107.A.3] Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations."
- 1263 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 1264 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923.
- 1265 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931, except as provided in LAC 33:I.3923.

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- 1266 [LAC 33:III.5107.B.4] Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to SPOC by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 1267 [LAC 33:III.5107.B.5] Submit to DEQ a compliance plan for achieving compliance with MACT requirements in accordance with LAC 33:III.5109.D. Include the elements listed under LAC 33:III.5109.E.
- 1268 [LAC 33:III.5109.A.1] Submit to DEQ a certification of compliance with all MACT requirements, in accordance with LAC 33:III.5109.D. Include the elements listed in LAC 33:III.5109.E.
- 1269 [LAC 33:III.5109.A.2] Submit to DEQ a compliance plan for achieving compliance with the ambient air standard(s), in accordance with LAC 33:III.5109.D. Include the elements listed under LAC 33:III.5109.E.
- 1270 [LAC 33:III.5109.B.1] Submit to DEQ a certification of compliance with all ambient air standards, in accordance with LAC 33:III.5109.D. Include the elements listed under LAC 33:III.5109.E.
- 1271 [LAC 33:III.5109.B.2] Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology.
- 1272 [LAC 33:III.5109.B.3] Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2.
- 1273 [LAC 33:III.5109.B] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III:Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department.
- 1274 [LAC 33:III.5109.C] Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.
- 1275 [LAC 33:III.5113.B.6] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
- 1276 [LAC 33:III.535] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- 1277 [LAC 33:III.5609.A.1.b] Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.
- 1278 [LAC 33:III.5609.A.2.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- 1279 [LAC 33:III.5609.A.3.b] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- 1280 [LAC 33:III.5609.A] Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- 1281 [LAC 33:III.5901.A] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.

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- 1282 [LAC 33:III.5907] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.  
 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later.  
 Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.  
 Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.  
 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment.  
 Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.